

## **Historic, archived document**

Do not assume content reflects current scientific knowledge, policies, or practices.



# MEYER-STISSER'S Garden Book

THIRTEENTH  
EDITION

1923



**The MEYER-STISSER CO.**

32 LIGHT ST.

**BALTIMORE, MD.**





# Thirteenth Annual Edition The Meyer-Stisser Co.'s Garden Book for 1923

JOHN F. MEYER, President and General Manager

## WE TAKE THIS OPPORTUNITY

of thanking our many customers for their generous patronage in the past, and to assure them that we will continue to do all in our power to merit their confidence in the future. We have been in business twelve years and have made continuous strides. This was in large measure due to our many customers, who consistently favored us with their patronage. Our greatest asset has been and is "Our Satisfied Customers."

Our whole efforts and time are unsparingly devoted to uphold the reputation which we have established, and we shall ever be on the alert to support our motto: "Punctuality, Sterling Quality, Courteous Treatment."

## PLEASE READ!

We aim to give our customers the best service possible. If we make an error, tell us about it and we'll make it right to your satisfaction. If there is any information you want in our line of business, write us (if you can't call), and we shall be glad to give it careful attention. Our various departments are in charge of experts, who are able to answer intelligently almost all inquiries pertaining to horticulture, or agriculture. Always write inquiries on a sheet separate from your order, it means quicker reply.

The attention of our customers is respectfully called to the following directions, which will, if followed, be an aid to purchasers as well as ourselves.

## Please Order Early—

thus enabling us to forward promptly—as a rule the day after the order is received. During the March and April rush we may fall a day or two behind; if any greater delay is likely, we will advise.

The Order Blanks accompanying this catalog will be convenient for customers and facilitate our filling orders (extra ones mailed on request).

## Remittances

Remittances should be made by Express Money Order, P. O. Money Order, Bank Draft or Registered Letter.

## Accounts

Parties having no account with us—who order goods without remittance—must furnish satisfactory reference. Baltimore reference preferred on account of the shorter delay pending investigation.

## We Forward As Customer Directs—

by mail, express, freight or steamer. When no shipping instructions are given we send according to our judgment.

## Shipping and Packing Charge

We Make No Charge for Shipping and Carting of goods to any railroad station, steamship line or express office. All packing charges at cost.

## Order by Telephone

Our Phone Number is Plaza 6916.

## IMPORTANT NOTICE—PLEASE READ

The Meyer-Stisser Company endeavors to send out only the very best quality of Seeds, Bulbs and Plants, but cannot guarantee results or crops. If customers do not accept goods on the above conditions, they can be returned to us at once.

Prices are subject to any advances over present prevailing freight rates, customs duties or war tax, and all deliveries are subject to delay, restrictions, embargoes, crop shortages and all conditions beyond our control. All quotations are made and all orders are booked subject to the above conditions.

Merchandise to be credited must be returned within 6 days in good order free of expense to us.

When seeds are ordered by mail, postage must be added to catalog prices at the regular parcel post rate, according to the zone the purchaser is in. One quart of Peas and Beans, weighing about 2 lbs. each, and Corn about 1 1/2 lbs. Packages and ounces are mailed postpaid.

Pounds	Local	1st	2nd	3d	4th	6th	6th	7th	8th
1	\$.05	\$.05	\$.05	\$.06	\$.07	\$.08	\$.09	\$.11	\$.12
2	.06	.06	.06	.08	.11	.14	.17	.21	.2
3	.06	.07	.07	.10	.15	.20	.25	.31	.36
4	.07	.08	.08	.12	.19	.26	.33	.41	.43
5	.07	.09	.09	.14	.23	.32	.41	.51	.60
6	.08	.10	.10	.16	.27	.38	.49	.61	.72
7	.08	.11	.11	.18	.31	.44	.57	.71	.84
8	.09	.12	.12	.20	.35	.50	.65	.81	.96
9	.09	.13	.13	.22	.39	.56	.73	.91	1.08
10	.10	.14	.14	.24	.43	.62	.81	1.01	1.20
11	.10	.15	.15	.26	.47	.68	.89	1.11	1.32
12	.11	.16	.16	.28	.51	.74	.97	1.21	1.44
13	.11	.17	.17	.30	.55	.80	1.05	1.31	1.56
14	.12	.18	.18	.32	.59	.86	1.13	1.41	1.68
15	.12	.19	.19	.34	.63	.92	1.21	1.51	1.80
16	.13	.20	.20	.36	.67	.98	1.29	1.61	1.92
17	.13	.21	.21	.38	.71	1.04	1.37	1.71	2.04
18	.14	.22	.22	.40	.75	1.10	1.45	1.81	2.16
19	.14	.23	.23	.42	.79	1.16	1.53	1.91	2.28
20	.15	.24	.24	.44	.83	1.22	1.61	2.01	2.40
21	.15	.25	.25	.46	.87	1.28	1.69	2.11	2.51
22	.16	.26	.26	.48	.91	1.34	1.77	2.21	2.64
23	.16	.27	.27	.50	.95	1.40	1.85	2.31	2.76
24	.17	.28	.28	.52	.99	1.46	1.93	2.41	2.88
25	.17	.29	.29	.54	1.03	1.52	2.01	2.51	3.00
26	.18	.30	.30	.56	1.07	1.58	2.09	2.61	3.12
27	.18	.31	.31	.58	1.11	1.64	2.17	2.71	3.24
28	.19	.32	.32	.60	1.15	1.70	2.25	2.81	3.36
29	.19	.33	.33	.62	1.19	1.76	2.33	2.91	3.48
30	.20	.34	.34	.64	1.23	1.82	2.41	3.01	3.60
31	.20	.35	.35	.66	1.27	1.88	2.49	3.11	3.72
32	.21	.36	.36	.68	1.31	1.94	2.57	3.21	3.84
33	.21	.37	.37	.70	1.35	2.00	2.65	3.31	3.96
34	.22	.38	.38	.72	1.39	2.06	2.73	3.41	4.08
35	.22	.39	.39	.74	1.43	2.12	2.81	3.51	4.20
36	.23	.40	.40	.76	1.47	2.18	2.89	3.61	4.32
37	.23	.41	.41	.78	1.51	2.24	2.97	3.71	4.44
38	.24	.42	.42	.80	1.55	2.30	3.05	3.81	4.66
39	.24	.43	.43	.82	1.59	2.36	3.13	3.91	4.68
40	.25	.44	.44	.84	1.63	2.42	3.21	4.01	4.84
41	.25	.45	.45	.86	1.67	2.48	3.29	4.11	4.92
42	.26	.46	.46	.88	1.71	2.54	3.37	4.21	5.04
43	.26	.47	.47	.90	1.75	2.60	3.46	4.31	6.16
44	.27	.48	.48	.92	1.79	2.66	3.53	4.41	5.28
45	.27	.49	.49	.94	1.83	2.72	3.61	4.51	6.40
46	.28	.50	.50	.96	1.87	2.78	3.69	4.61	6.52
47	.28	.51	.51	.98	1.91	2.84	3.77	4.71	6.64
48	.29	.52	.52	1.00	1.95	2.90	3.85	4.81	6.76
49	.29	.53	.53	1.02	1.99	2.96	3.93	4.91	5.88
50	.30	.54	.54	1.04	2.03	3.02	4.01	5.01	6.00
61	.30	.55	.55	1.06					
62	.31	.56	.56	1.08					
63	.31	.57	.57	1.10					
64	.32	.58	.58	1.12					
65	.32	.59	.59	1.14					
66	.33	.60	.60	1.16					
67	.33	.61	.61	1.18					
68	.34	.62	.62	1.20					
69	.34	.63	.63	1.22					
70	.35	.64	.64	1.24					
71	.35	.65	.65	1.26					
72	.36	.66	.66	1.28					
73	.36	.67	.67	1.30					
74	.37	.68	.68	1.32					
75	.37	.69	.69	1.34					
76	.38	.70	.70	1.36					
77	.38	.71	.71	1.38					
78	.39	.72	.72	1.40					
79	.39	.73	.73	1.42					
80	.40	.74	.74	1.44					

## Parcel Post Shipments

Freight limit to 1st, 2d and 3d Zones, 70 lbs.; in other zones, 60 lbs. 4 oz. or less 1 cent per oz., regardless of distance.

Bulk limit to all zones, 84 inches in combined length and girth. Poisons cannot be sent by Parcel Post.

Liquids and goods packed in glass should be sent by express.

## EMPLOYMENT DEPARTMENT

Our house makes it its business to procure positions for Gardeners, Superintendents, Poultrymen, Farmers and Florists on private or commercial places. Gentlemen wishing to engage the services of men in the above capacity are invited to communicate with us, as we generally have applications on file from desirable parties. Absolutely no obligation is connected with this service.



DATE.....192.....

SHIP TO.....P. O. or  
R. F. D. ADDRESS.....

C/O.....FREIGHT or  
EXPRESS ADDRESS.....

SEND BY.....STATE.....

CHARGE TO..... SUPERINTENDENT'S or  
GARDENER'S NAME.....

CHARGE ADDRESS.....

**AMOUNT  
ENCLOSED**

STAMPS      M. O.      CHECK      CASH

**Filled by**

**Double Checked**  
by

Shipped by

**Notified**

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

DON'T  
WRITE HERE

**DO NOT FILL OR SHIP UNLESS MARKED  
PAID, OR CHARGE AND REGISTERED.**

SPEC. TERMS

ORDER No.

[illegible]

The Meyer-Stisser Co. endeavor to send out only the very best quality of Seeds, Bulbs and Plants, but cannot guarantee results or crops. If customers do not accept goods on the above conditions they can be returned to us within five days. Plants must be returned at once.

## SPECIAL NOTICE

**It is always best to write letters and inquiries on a separate memorandum. NOT on order sheets.**

OVER

[illegible]

FROM

.....

.....

THE MEYER-STISSER CO.  
SEED HOUSE

ORIGINATORS OF THE CELEBRATED  
"M. & S. ROLAND PARK"  
LAWN GRASS SEED

32 LIGHT STREET  
BALTIMORE, MD.





# CONTENTS—M. & S. 1923 Garden Book

## VEGETABLE SEED

Artichoke.....	5
Asparagus.....	5
Beans Bush.....	6
Beans Lima.....	7
Beans Pole.....	6
Beans Wax.....	6
Beans Windsor.....	7
Beets Cattle.....	8
Beets Table.....	7-8
Broccoli.....	5
Brussels Sprouts.....	5
Bore Cole.....	15
Cabbage.....	10
Cabbage, Chinese.....	10
Cantaloupe.....	15
Carrot.....	10
Cauliflower.....	10-11
Celery.....	12
Chervil.....	12
Chicory.....	11
Collards.....	11
Corn Salad.....	11
Corn Sugar.....	11-12
Cress Land.....	12
Cress Water.....	12
Cucumber.....	12
Egg Plant.....	12
Endive.....	12-13
Herbs.....	13
Kale.....	15
Kohl Rabi.....	13
Leek.....	15
Lettuce.....	14
Muskmelon.....	15
Mustard.....	16
Okra.....	16
Olive.....	16
Oyster Plant.....	16
Parsley.....	18
Parsnip.....	18
Peas.....	17-18
Pepper.....	18
Potato Seed.....	13
Pumpkin.....	19
Radish.....	21
Rhubarb.....	21
Salsify.....	22
Sorrel.....	22
Sour Grass.....	22
Spinach.....	23
Squash.....	22
Swiss Chard.....	22
Tomatoes.....	24-25
Turnip.....	23
Vegetable Collection.....	4
Vegetable Marrow.....	23
Watermelon.....	25

## FLOWER SEEDS

Pages.....	29-35
------------	-------

### Lawn and Field Seed

Buckwheat.....	26
Barley.....	27
Clover Alfalfa.....	25
Clover Alsike.....	25
Clover Crimson.....	25
Clover Mammoth.....	25
Clover Red.....	25
Clover White Dutch.....	25-28
Clover White Sweet.....	25
Corn Broom.....	26
Corn Ensilage.....	27
Corn Field.....	27
Corn Kaffir.....	26
Corn Pop.....	60
Cow Peas.....	26
Grass Bermuda.....	26
Grass Crested Dog Tail.....	26
Grass English Rye.....	26
Grass Hard Fesque.....	26
Grass Italian Rye.....	26
Grass Kentucky Blue.....	26

Grass Lawn.....	28
Grass Meadow Fesque.....	26
Grass Orchard.....	26
Grass Pasture.....	28
Grass R. I. Bent.....	26
Grass Red Fesque.....	26
Grass Red Top.....	26
Grass Sheep Fesque.....	26
Grass Sudan.....	26
Grass Tall Meadow.....	26
Grass Wood Meadow.....	26
Millet.....	26
Oats.....	27
Pea Canada.....	27
Rape.....	27
Rye.....	27
Soja Beans.....	26
Sorghum.....	27
Sunflower.....	27
Timothy.....	26
Tobacco.....	22
Vetch.....	27
Wheat.....	27

## BULBS, PLANTS, ROOTS AND NURSERY STOCK

Artichoke Roots.....	5
Asparagus Roots.....	3
Bedding Plants.....	43
Begonia Bulbs.....	39
Begonia Plants.....	42
Berries.....	45-46
Butterfly Plants.....	42
Caladium.....	39
Canna.....	36
Chrysanthemums.....	42
Cinnamon Vine.....	39
Cyclamen.....	39
Dahlia's.....	37-38
Evergreens.....	45
Ferns.....	42
Fruit Trees.....	44-45
Gladiolus.....	36
Gloxinia.....	39
Grapes.....	46
Hedge Plants.....	41
Horse Radish Roots.....	3
Iris Roots.....	44
Lillies.....	39
Mint Clumps.....	3
Mushroom Spawn.....	16
Onion Sets.....	16
Peoioe Roots.....	44
Perennials.....	18
Perennial Plants.....	43
Potatoes.....	19
Rhubarb Roots.....	3
Roses.....	40-41
Shade Trees.....	45
Shrubbery.....	41
Tritoma Plant.....	39
Tuberose.....	39
Vegetable Plants.....	3

## Horticultural and Dairy Supplies, etc.

Acid Phosphate.....	47
Animal Regulator.....	62
Ant Killer.....	48
Asparagus Buncher.....	3-53
Asparagus Knife.....	5-53
Asparagus Salt.....	5-47
Ax.....	57
Axle Grease.....	53
Back Bands.....	60
Bag Balm.....	62
Baskets.....	60
Berry Presses.....	61-62
Bird Boxes.....	72
Bird Food.....	71
Bird Requisites.....	71
Bird Remedies.....	71
Bitter Lick.....	62

Black Leaf 40.....	48
Blood Meal.....	47
Bone Meal.....	47
Books Gardening.....	45
Bouquet Holder.....	61
Bulb Pans.....	56
Bull Rings.....	62
Butter Churn.....	62
Butter Color.....	62
Butter Paper.....	62
Butter Printer.....	62
Brooms.....	62
Calf Meal.....	62
Calf Weaner.....	62
Carbon-Di-Sulphide.....	48
Cattle Manure.....	47
Cider Mills.....	61
Corn Planter.....	60
Corn Sheller.....	61
Cow Manure.....	47
Cow Chains.....	60
Cultivators.....	58-59
Cultivator Teeth.....	59
Cuttle Fish.....	71
Dairy Thermometer.....	62
Dibbles.....	57
Dog Requisites.....	Back Inside Cover
Farmorgem.....	47
Feed Cutter.....	59
Felt Disk.....	48
Fertilizer, Obors.....	47
Fibre Prepared.....	47
Fleurette.....	47
Flower Bed Border.....	63
Flower Pots.....	56
Flower Pot Saucers.....	56
Fly Killer.....	62
Forks.....	57
Formaldehyde.....	48
Fruit Evaporator.....	61
Fruit Picker.....	53
Garden Hose.....	51
Garden Line.....	56
Garden Syringe.....	50
Glazing Points.....	55
Grafting Wax.....	55
Grape Bags.....	62
Grass Catcher.....	52
Grass Edger.....	52
Grass Hooks.....	53
Grinding Mills.....	61
Grindstone.....	50
Harrow, 12 Tooth.....	59
Hatchet.....	57
Hedge Trimmer Little Wonder.....	54
Hoes.....	57-58
Hoes, Horse.....	59
Hooks Bush.....	57
Hooks, Manure.....	57
Hooks, Potato.....	57
Horse Mowers.....	52
Horse Requisites.....	51
Hotbed Glass.....	55
Hotbed Mats.....	55
Hotbed Sash.....	55
Hotbed Thermometers.....	16-55
Humus.....	47
Inoculating Bacteria.....	47
Insect Ban.....	48
Insecticides.....	48
Insecticides Dusters.....	50-51
Knife, Budding.....	55
Knife, Pocket.....	55
Knife, Prunning.....	55
Kow Kare.....	62
Lawn Boots.....	52
Lawn Edger.....	52-57
Lawn Mowers.....	51-52
Lawn Rollers.....	53
Lawn Sprinkler.....	51
Lime.....	47
Lime Marl.....	47
Liquid Cement.....	61

Mail Box.....	55
Mattock.....	57
Mole Trap.....	60
Mo-Lo.....	60
Motor Mowers.....	51
Mouse Trap.....	61
Muriate of Potash.....	47
Nico-fume Liquid.....	48
Nico-fume Paper.....	48
Nitrate of Soda.....	47
Oilers, Oil.....	52-53
Pea Bags.....	60
Picks.....	57
Plant Jr. Tools.....	58-59
Plant Food.....	47
Plant Sprinkler.....	51
Plant Stakes.....	56
Plant Tubs.....	56
Plows.....	59
Plow Lines.....	60
Plow Repairs.....	59
Pop Corn Poppers.....	60
Posthole Digger.....	63
Pot Labels.....	56
Powder Bellows.....	51
Prunning Saw.....	55
Putty.....	55
Putty Bulbs.....	55
Pyrox.....	48
Raffia.....	5-56
Rakes.....	57
Rat Poison.....	71
Rat Traps.....	61
Rat Virus.....	71
Roofing Paper.....	61
Roup Cutter.....	59
Rubbish Consumer.....	63
Sal-Vet.....	62
Scalecide.....	48
Scuffle Hoe.....	57
Scythes.....	57
Seeders.....	58-59-60
Shears Border.....	53
Shears Flower.....	53
Shears Grass.....	53
Shears Grape.....	53
Shears Hedge.....	54-55
Shears Lawn.....	53
Shears Prunning.....	55
Shears Sheep.....	53
Sheep Manure.....	47
Shovels.....	57
Shovel Plows.....	59
Single Trees.....	59
Slug Shot.....	48
Snatches.....	57
Spades.....	57
Sparrow Trap.....	61
Spray Pumps.....	49
Spray Pump Accessories.....	49-50
Sprinkling Cans.....	51
Stable Ties.....	60
Steel Post.....	63
Stimulant.....	47
Stock Tonic.....	62-71
Storage Can.....	63
Strawberry Boxes.....	60
Sulphur.....	48
Thermometers.....	16-55
Thrift Jars, etc.....	62
Tobacco Dust.....	48
Tobacco Stems.....	72
Trace Chains.....	60
Tree Labels.....	56
Tree Pruners.....	55
Tree Tanglefoot.....	48
Trowels.....	53-57
Turf Edger.....	52-57
Twines.....	5-56
Veterinary Remedies.....	62
Weeders.....	53-57
Weed Killer.....	48
Wheelbarrow.....	53
Wheel Hoes.....	58
Whetstones.....	54

Wine Presses.....	61-62
Window Boxes.....	60
Wire Basket.....	63
Wire Fence.....	63
Wire Gates.....	63
Wire Guard.....	63
Wire Trellis.....	63
Worm Powder.....	63

## POULTRY SUPPLIES

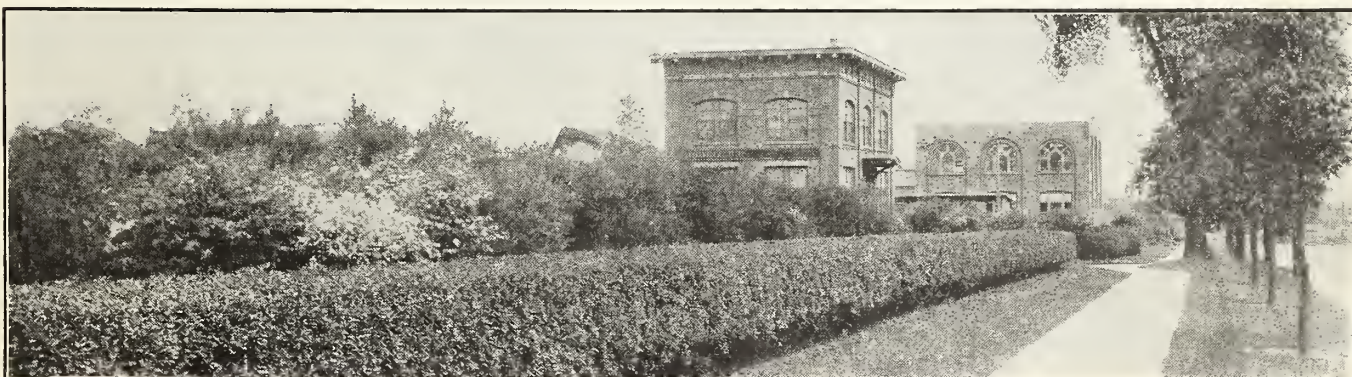
Automatic Feeders.....	68
Automatic Fountains.....	69
Anti-setting Devices.....	68
Baby Chicks.....	Back Inside Cover
Baby Chick Boxes.....	70
Breeding Stock.....	Back Inside Cover
Brood Coops.....	66
Brooder Stoves.....	65
Caponizing Sets.....	72
Carbola.....	71
Chick Feeders.....	66, 67, 68, 69
Chick Food.....	72
Choline.....	71
Dethol.....	71
Disinfectants.....	71

## Back Insert Pages

Dry Mash Hopper.....	67-68
Egg Boxes.....	70
Eggs for Hatching.....	Back Inside Cover
Egg Preservers.....	71
Egg Tester.....	67
Electric Brooder.....	64
Electric Incubator.....	64
Felt.....	72
Gape Work Extractor.....	72
Gas Burners.....	67
Hovers.....	66
Hygrometer.....	72
Incubators.....	64
Killing Knives.....	69
Lamp Burners.....	67
Leg Bands.....	70
Licecil.....	71
Nest Eggs.....	67
Oat Sprouters.....	72
Pan-a-cea.....	71
Parcel Post Egg Boxes.....	70
Perch Supports.....	67
Pigeon Feeder.....	67
Pigeon Nest.....	71
Poultry Books.....	64
Poultry Catcher.....	69
Poultry Feeders.....	67-68
Poultry Foods.....	72
Poultry Fountains.....	67-69
Poultry Markers.....	72
Poultry Remedies.....	72

## Back Insert Pages

Poultry Requisites.....	64-72
Poultry Wire.....	63
Putnam Stove.....	67
Rat Poisons.....	71
Rat Virus.....	71
Roup Syringe.....	69
Shipping Coops.....	70
Succulenta.....	71
Sulphur Candles.....	67
Thermometers.....	72
Tobacco Stems.....	72
Trap Nest.....	72
Turkey Powder.....	71
Turkey Remedies.....	71
Water Glass.....	71
Wicks.....	67
Zenoleum.....	71



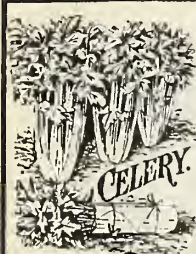


# Spraying Table

WHAT TO SPRAY AND WHAT TO SPRAY FOR	SPRAY WITH	TIME OF FIRST SPRAYING	TIME OF SECOND SPRAYING	TIME OF THIRD SPRAYING
<b>APPLES—</b>				
Bitter Rot.....	Bordeaux mixture.....	First appearance of rot.....	One to two weeks later.....	Two weeks later.
Canker Worm.....	Arsenate of lead, paris green, pyrox.....	On first appearance of worms...	Two or three days later if worms remain.....	Same as second.
San Jose Scale.....	Scalecide or Commercial lime-sulphur.....	Just as the leaf buds are swelling.....	Just before the flower buds open.	As soon as the petals have fallen.
Scab.....	Scalecide or lime-sulphur.....	After the leaves have come out, but before the flower buds appear.....	Within eight days from the time petals drop.....	One month later.
Codling Moth.....	Arsenate of lead, pyrox.....	Within eight days from the time the petals drop.....	One month later.	
<b>ASPARAGUS—</b>				
Beetle.....	Arsenate of lead, pyrox.....	Early spring.		
Rust.....	Bordeaux mixture.....	After cutting crop.....	Ten days later.....	Ten days later.
<b>CABBAGE AND CAULIFLOWER—</b>				
Slug Shot, Bug Death, Pyrox...	Slug Shot, Bug Death, Pyrox...	On first appearance of worms...	Whenever worms are noticed.	
<b>CELERY</b>	Bordeaux mixture.....	On young seedlings.....	Repeat on seedlings.....	Before or after transplanting.
<b>CHERRY—</b>				
Aphis.....	Kerosene emulsion.....	At first appearance.....	Repeat as necessary.	
San Jose Scale.....	Scalecide or Commercial lime-sulphur.....	Spray same as for apples.		
Leaf-spot.....	Scalecide or lime-sulphur.....	Just before blossoms open.....	When fruit is free from calyx.	
<b>CUCUMBERS—</b>				
Anthraxnose.....	Bordeaux mixture, pyrox.....	When plants begin to run.....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture.....	When plants begin to run.....	Ten days later.....	Nine days later.
<b>CURRENT—</b>				
Leaf-spot.....	Bordeaux mixture.....	As leaves are unfolding.....	Two weeks later.....	Two weeks later.
Worm.....	White hellebore, pyrox.....	When they first appear.....	In three or four days.....	Repeat three or four days later.
<b>GOOSEBERRY—</b>				
Leaf-spot.....	Bordeaux mixture.....	Before leaves start.....	Two weeks later.....	Two weeks later.
Worm.....	Same as for currants.			
Mildew.....	Grape dust.....	When buds are breaking.....	Repeat every ten days until fruit is gathered.	
<b>GRAPE—</b>				
Anthraxnose.....	Bordeaux mixture.....	Just before the buds open.....	Just before blossoming.....	After fruit has set.
Berry Moth.....	Arsenate of lead.....	Before blossoms are ready to open.....	After blossoms have fallen.....	Ten days later.
Downy or Powdery Mildew...	Bordeaux mixture.....	Just before blossoming.....	After fruit has set.....	Ten days later.
Rot.....	Bordeaux mixture.....	Just before blossoming.....	Just after fruit has set.....	Eight days later.
<b>MUSKMELON—</b>				
Anthraxnose.....	Bordeaux mixture, pyrox.....	When plants begin to vine.....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture.....	July 25 to August 1.....	Ten days later.....	Nine days later.
Leaf-blight.....	Bordeaux mixture.....	When plants begin to vine.....	Three weeks later.....	Three weeks later.
<b>PEACH—</b>				
Leaf-Cnrl.....	Scalecide, lime-sulphur or bordeaux mixture.....	In March or April, or both, to make doubly sure.....	Two or three weeks later.	
Brown Rot.....	Self-boiled lime-sulphur and arsenate of lead.....	About time shucks are shedding from young fruit or on first appearance.....		About one month before fruit ripens. Omit arsenate of lead.
Scab.....	Bordeaux mixture.....	Just as buds begin to swell....	After fruit has set.....	Repeat later when fruit is about half grown.
San Jose Scale.....	Scalecide or lime-sulphur.....	Spray same as for apples		
<b>PEAR—</b>				
Leaf-blight.....	Bordeaux mixture.....	Cut out the branches on first appearance on twigs.		
Psylla.....	Kerosene emulsion or whale-oil soap.....	In winter use commercial lime-sulphur for eggs.	After blossoms fall.....	Repeat at intervals or three to seven days.
<b>PLUM—</b>				
Circillo.....	Arsenate of lead.....	With starting of buds.....	Just after blossoms drop.....	Five days later.
Aphis.....	Whale-oil soap.....	On Appearance of Aphis.		
Shot-hole Fungus.....	Scalecide, lime-sulphur or bordeaux mixture.....	When leaves are half grown....	Three weeks later.....	Three weeks later if necessary.
Rot.....	Bordeaux mixture.....	As buds are swelling or on appearance.....	Just after calyx drops.....	Three or four weeks later.
<b>POTATO—</b>				
Early blight.....	Bordeaux mixture, pyrox.....	When plants are 6 inches high..	Seven to ten days later.....	Two weeks later.
Late blight.....	Bordeaux mixture, pyrox.....	As for early blight to July.....	July 15 to 20.....	Two weeks later.
Potato Beetle.....	Paris green, micro, slug shot bug death, pyrox.....	When pest appears.....	Repeat if necessary.	
<b>RASPBERRY—</b>				
Anthraxnose.....	Bordeaux mixture, pyrox.....	Before leaves open.....	When new canes are 6 to 8 inches high.....	Ten days later.
Saw-fly.....	Paris green and arsenate of lead or hellebore.....	When pest appears.....	Repeat in three or four days.	
Leaf-spot.....	Bordeaux mixture.....	When leaves are half grown....	Two weeks later.....	Two weeks later.
<b>ROSE—</b>				
Leaf-spot.....	Bordeaux mixture.....	On first appearance of fungus...	Two or three weeks later.....	Repeat if necessary.
Mildew.....	Powdered sulphur.....			
Slug.....	Thanatus, black leaf 40. Nicotume Liquid.....	On appearance of slugs.....	Repeat if necessary.	
<b>STRAWBERRY—</b>				
Leaf-spot.....	Sulphate of iron, bordeaux mixture.....	Soon after growth begins.....	Make three or four sprayings during season.....	The following spring spray just before blossoming and again 10 days later.
<b>SQUASH—</b>				
Aphis.....	Kerosene emulsion.....	Spray under side of leaves.		
Lady Beetle.....	Arsenate of lead, pyrox.....	As soon as pest appears.		
<b>TOMATO—</b>				
Anthraxnose.....	Bordeaux mixture, pyrox.....	Soon after fruit begins to set	Three weeks later.....	Three weeks later.
Leaf-blight.....	Whale-oil, soap and water.....	Three weeks after transplanting	Three weeks later.....	Three weeks later.
White Fly.....	Bordeaux mixture.....	Spray underside of leaves thoroughly.		

Mr. E. Koop, Westchester Ave., Ellicott City, Md., tells us that a friend informed her that the best Seed House in Baltimore is the M. & S. Co.





## Vegetable Plants and Roots

### SPECIAL NOTICE

All of our plants are produced from our M. & S. Sure Growing Seeds, and will give wonderful results. If wanted in larger quantities, write for special quotations.

### ARTICHOKEs (Ready in April)

Jerusalem—Used for the table and stock feeding. Qt. 35c; peck \$1.50; per bushel of 60 lbs. \$5.00.

### ASPARAGUS ROOTS (Ready Oct. 15 to May 15)

The two-year-old roots usually produce two years after planting.

2-Year-Old Roots.	Doz.	100	1000
Argenteuil	\$0.30	\$1.25	\$10.00
Barr's	0.30	1.25	10.00
Conover's	0.30	1.25	10.00
Palmetto	0.30	1.25	10.00

### BEET PLANTS (Ready April 1)

Popular Varieties—15c doz.; 60c per 100; by mail, add 5c to doz.; 15c to 100.

### BORECOLE PLANTS (Ready July 1)

20c doz.; 60c per 100; by mail, add 5c to doz.; 15c to 100.

### BRUSSELS SPROUTS (Ready in July)

Matchless Improved—12 for 25c; 75c per 100; per 1000, \$6.00. If wanted by mail, add 10c per 100 for postage; 5c per doz.

### FROST-PROOF CABBAGE PLANTS

Our FROST-PROOF CABBAGE PLANTS mean increased profits for the Market Gardener, and earlier cabbage for the Home Gardens, as they produce heads at least two or three weeks earlier than plants grown in hot beds or cold frames. These FROST-PROOF CABBAGE PLANTS are grown out in the open field without protection along the Atlantic Coast, thus being hardened as they grow by the season's cold. During the transplanting period they are practically dormant and can be shipped thousands of miles in good condition. They are tough and hardy and will stand any reasonable cold, even as low as 20 degrees above zero without damage to them.

These plants do not begin any new growth of their tops until the spring weather arrives, however, the roots of the plants have become so firmly established that the warm spring sunshine soon hastens the growth of them. The fact that the root conditions are so well provided for and a hardy top ready to begin growth insures you of a crop of mature heads weeks earlier than plants grown from seed sown in your hot beds or cold frames. On account of this earlier maturity your crop of cabbage will be marketed long before the average cabbage grower markets his, hence your increased profits.

We advise all cabbage growers to set these plants at least a month to six weeks earlier than you would set home grown plants to get the desired results.

These plants are shipped direct to you from our growing stations along the Atlantic Coast, and we advise you to send in your order about a week or ten days before plants are wanted, as it takes a few days to get plants to you.

You risk nothing in sending in your order to us for these plants as we positively guarantee good order delivery, full count and complete satisfaction or your order duplicated free or money refunded. Terms cash with order. No plants shipped C. O. D.

Varieties—Early Jersey Wakefield, Charleston Large Wakefield, Succession and Large Flat Dutch. Plants are ready for shipment from November to June.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.75; 1000 or more at \$3.25 per 1000 plants.

By express charges collect: \$2.00 per 1000; 10,000 lots and over at \$1.50 per 1000, cash with orders.

### CABBAGE PLANTS (Season beginning April 1)

Early Sorts—From hot beds. 15c per doz.; 50c per 100; per 1000, \$4.00.

Late Sorts—Popular varieties. 15c doz.; per 100, 50c; \$4.00 per 1000. If cabbage plants are wanted by mail, add 10c per 100 for postage; 5c doz. Ready May 1st.

### CAULIFLOWER PLANTS (Ready April 1)

Snowball variety only—From hot beds. 25c per doz.; \$1.50 per 100. By mail, add 5c per doz., or 10c per 100 for postage charges.

### CELERY PLANTS (Ready in July)

M. & S. Monarch, Golden Heart, White Plume, Giant Pascal, Winter Queen and Golden Self-Blanching. 25c dozen; 75c per 100; \$6.00 per 1000. By mail, allow 10c per 100 for postage; 5c per dozen.

### EGG PLANTS (Ready after May 1)

Sold in pot-grown stock only.

M. & S. Ebony King and Black Beauty—7c each; 75c doz.; \$5.50 per 100. Best sent by express. Mail, add 2c to each plant.

### HORSE RADISH ROOTS (Ready in March)

Maliner Kren (Bohemian)—Large, strong cuttings, 35c per doz.; per 100, \$1.00; \$7.00 per 1,000. If Horse Radish are wanted by mail, add 10c per 100 for postage; 5c per doz.

### KOHL RABI PLANTS (Ready April 1)

Early White Vienna—20c doz.; 75c per 100; by mail, add 10c per 100; 5c doz.

### LETTUCE PLANTS (Ready April 1)

Leading varieties—10c doz.; 50c per 100; \$4.00 per 1,000. If wanted by mail, add 10c per 100 for postage; 5c doz.

### MINT—20c per Clump

### PEPPER PLANTS (Ready in May)

Bull Nose (hot), Ruby King, Chinese Giant and Long Red Cayenne—Hot Bed Grown. 25c per doz.; per 100, \$1.50. By mail, add 10c 100; 5c doz. Potted Plants, sweet varieties only, 6c each; 60 doz.; \$4.50 100; if to go by parcel post, add 1c to each plant.

### RHUBARB ROOTS (Ready October to May 15)

Victoria—First Size Roots. 10c each; \$1.00 per doz.; per 100, \$7.50. Allow 5c each or 20c dozen for postage, if wanted by mail.

### SWEET POTATO PLANTS (Ready in April)

Yellow Big Stem and Up Rivers—50c per 100; 1,000, \$4.00. If wanted by mail, allow 15c per 100 for postage.

### TOMATO PLANTS (Ready after April 15)

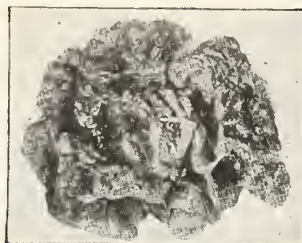
Pot-Grown Plants in the following varieties only: Earliana, M. & S. Incomparable, M. & S. Big Chief, Stone, 5c each; doz, 50c; \$4.50 per 100. By mail, add 2c per plant.

Hot-Bed Plants all kinds and the best as above. 20c per doz.; per 100, 60c. By mail, allow 5c per doz.; 15c per 100.

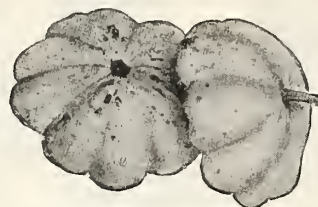




Giant Stringless Beans.



Belvedere Lettuce.



Perfection Bush Squash.



Cool and Crisp Cucumber.



Enormous Bush Beans.



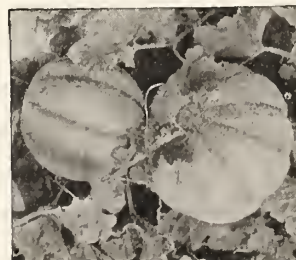
Delmonico Swiss Chard.



Snow White Evergreen Corn.



Sweet Heart Watermelon.



Golden Wonder Cantaloupe.



Early Cardinal Radish.

## M. & S. Collection of Vegetable Seeds

You will see from the lists below that the varieties offered in these collections will please everybody.

The "collection idea" of Vegetable Seeds is getting more popular each year; so many persons, even gardeners of many years' experience, sometimes do not know the varieties to order. They often use the same sorts year after year, thus missing some of the better and newer strains of vegetables. These collections have also a decided feature of advantage, as they save time and money. The most popular kinds of vegetables are used in these collections and will be found very practical to every household.

### M. & S. Dollar Vegetable Garden

POSTPAID ANYWHERE IN THE U. S.

Order one or more of these collections and you will find this one of the best investments you ever made. It will be noticed below that we offer these in quantities as some persons may wish to order for their friends who are interested in gardening.

BEANS—M.&S. Giant Stringless  
LIMA BEANS—M.&S. Enormous Bush  
BEET—M.&S. Early Marvelous  
CABBAGE—M.&S. Copenhagen Market  
CARROT—M.&S. Southern Pride  
SUGAR CORN—M.&S. Snowwhite Evergreen  
CUCUMBER—M.&S. Cool and Crisp  
LETTUCE—M.&S. Belvedere

PEAS—M.&S. World's Record  
RADISH—M.&S. Early Cardinal  
SWISS CHARD—M.&S. Delmonico  
SQUASH—M.&S. Perfection Bush  
TOMATO—M.&S. Big Chief  
PARSLEY—M.&S. Green Curled Beauty

6 COLLECTIONS FOR \$5.50, POSTPAID  
12 COLLECTIONS FOR \$10.00, POSTPAID

### M. & S. Suburban Collection Vegetable Seeds For Larger Gardens, \$2.00

POSTPAID ANYWHERE IN THE U. S.

A liberal sized list of the best and most desirable, embracing some of those in the "Dollar Garden", with increased quantity and with other good ones added.

POLE BEANS—M.&S. Golden Cluster Wax  
BEANS—M.&S. Giant Stringless  
LIMA BEANS—M.&S. Enormous Bush  
BEET—M.&S. Early Marvelous  
CABBAGE—M.&S. Copenhagen Market  
CANTALOUPE—M.&S. Golden Wonder  
CARROT—M.&S. Southern Pride  
SUGAR CORN—M.&S. Snowwhite Evergreen  
SUGAR CORN—M.&S. Country Gentleman  
CUCUMBER—M.&S. Cool and Crisp  
CELERY—M.&S. Magnificent  
KOHL RABI—M.&S. Earliest White Vienna

LETTUCE—M.&S. Belvedere  
PARSLEY—M.&S. Green Curled Beauty  
PEAS—M.&S. Alaska  
PEAS—M.&S. Record  
RADISH—M.&S. Early Cardinal  
SQUASH—M.&S. Perfection Bush  
SWISS CHARD—M.&S. Delmonico  
TOMATO—M.&S. Incomparable  
TOMATO—M.&S. Big Chief  
TURNIP—M.&S. Early Champion  
SPINACH—M.&S. Savoy  
WATERMELON—M.&S. Sweet Heart

Gentlemen—It affords me great pleasure to inform you that I have been buying seeds from your firm since it has been established, and they have always proved true to name.  
Yours truly,  
ADAM SCHUSSLER, Mayo, A. A. Co., Md.



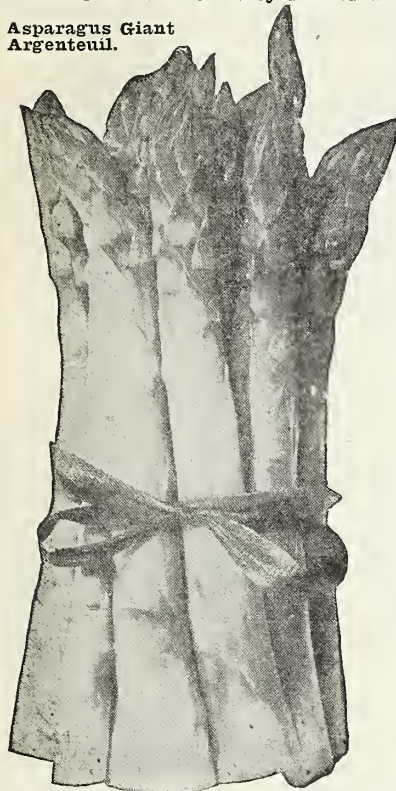
## Asparagus—Seeds and Roots

(German—Spargel. French—Asperge)

(ROOTS READY AFTER MARCH 1st)

One ounce to forty feet of drill; 5 lbs. per acre.

Asparagus Giant  
Argenteuil.



**CULTURE**—Sow in March or April, in rows one foot apart. When two years old transplant into permanent beds, which should be well and deeply manured, and trenched to the depth of two feet. In planting for private use, set out in beds five feet wide, three rows in a bed, the outer being each one foot from the edge, and allow eighteen inches between the rows; set the plants from four to six inches below the surface. If set out in autumn, top-dress with six inches of manure. For market on a large scale, set out four by one and one-half feet. On the approach of winter cover with manure or compost; fork the beds early in spring, and apply a dressing of salt. Cut for use the second year after planting in permanent bed. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slaked lime or paris-green.

**Giant Argenteuil**—A new and entirely distinct variety that produces shoots that are white, and remain white as long as fit for use. **Pkg. 5c and 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.**

**Columbian Mammoth White**—**Pkg. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

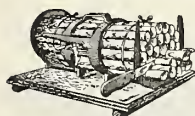
**Conover Colossal**—Of large size, tender and of excellent quality. Green shoots. **Pkg. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

### PALMETTO

It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality. Green shoots. **Pkg. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

For Plants, see page 3.

## Accessories for Asparagus Culture



**Asparagus Buncher**—Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform. With Knife Guard, \$3.00. Parcel post weight, 8 lbs.

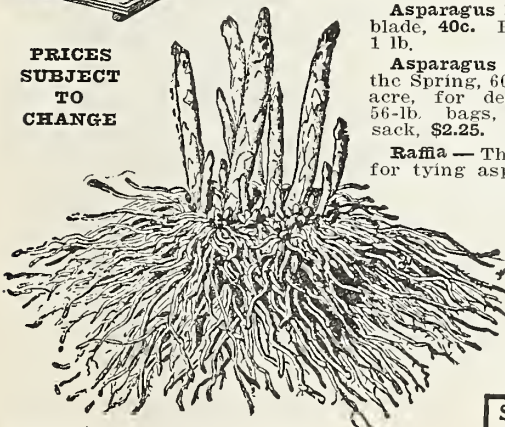
**Asparagus Knife**—V-shaped blade, 40c. Parcel post wgt., 1 lb.

**Asparagus Salt**—Applied in the Spring, 600 to 800 lbs. per acre, for destroying weeds. 56-lb. bags, \$1.25; 140 lb. sack, \$2.25.

**Rafia**—The ideal material for tying asparagus. 20c per lb. in hanks. Special price in quantity; hank runs about 2½ pounds.

**Jute Twine**—Very soft and pliable. 15c per ball. Special price on quantities on application.

PRICES  
SUBJECT  
TO  
CHANGE



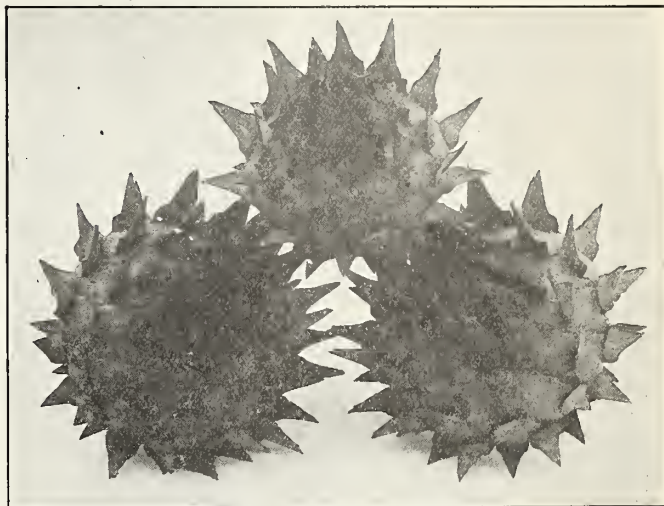
Two-Year-Old Asparagus Plants,  
see page 3.

**STIMULANT**  
Makes a  
**WONDER GARDEN**

Use Manure for your garden crops. We can sell you a whole wagon load in a bag of M. & S. Sheep or Cattle Manure, for much less money.

## Artichokes

**Large Green Globe**—This is a very delicious vegetable. Some prefer it cooked like asparagus—that is, take the flower head before it begins to open and cook much the same as asparagus. **Pkt. 10c; oz. 50c.**



Large Green Globe Artichokes.

**Artichoke Roots (Jerusalem)**—The tubers roasted or boiled, served with butter, salt and pepper, make a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk.

Price, see page 3.

## Broccoli

(German—  
Spargelkohl)  
(French—  
Buocoli)

One ounce of  
seed to 200 feet  
of row.

A plant much  
resembling the  
Cauliflower.  
Broccoli re-  
quires a longer  
season to de-  
velop than Cauli-  
flower. It has  
more numerous  
and stiffer leaves;



Early  
Large  
White  
Broccoli.

heads are smaller. Treat same as Cabbage.

**Early Large White**—Heads medium size, close and compact. One of the most certain to head. **Pkt. 10c; oz. 50c.**

**Early Purple Cape**—Rather hardier sort, with greenish-purple heads, good flavor. **Pkt. 10c; oz. 50c.**

## Brussels Sprouts

(German—Rosenkohl)  
(French—Choux de  
Bruzelle)

Improved  
Dwarf  
Brussels  
Sprouts.

A variety of the Cabbage family, possessing the peculiarity of bearing upon its stem or stalk from fifty to one hundred buds, resembling miniature Cabbage heads. The leaves composing these heads resemble Savoy Cabbage in their crumpled texture and also in their color. The heads or buds, one to two inches in diameter, form one of the most delicious garden vegetables, only equalled by the Cauliflower. Treat same as Cabbage.



**Improved Dwarf**—Produces compact sprouts of finest quality; a good keeper. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 75c; lb. \$2.00.**

For Plants, see page 3.



## BEANS—Bush Beans (Green Pod)

(German—Bohnen.  
French—Haricot Vert)

Bushel prices of Beans on application.

**CULTURE**—The seed should not be planted before the ground becomes light and warm, in favorable seasons, usually about the middle of April to first of May. The soil should be rich and mellow, and the seeds scattered about three inches apart in drills two feet apart, and covered about two inches deep. Successive sowings made at intervals of about two weeks until August 15th, will give a plentiful supply of Beans all season. One quart of seed will sow 100 feet of drill; two bushels will sow an acre. We furnish 5c and 10c packages of all Beans.

**Burpee's Stringless Green Pod**—An ideal variety having round, slightly curved, fleshy and exceedingly tender pods. Matures a few days earlier than the Giant sort. Ft. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.

**Hopkins Improved Extra Early Red Valentine**—One of the most popular early snap beans with round, fleshy pods about five inches in length; very brittle, tender and of fine quality. Ft. 25c; qt. 40c; pk. \$2.50.

**Black Valentine, or May Queen**—Has very long handsome round pods, and being immensely productive places this variety as one of the most profitable for the market gardener. It is very early. Ft. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.

### M. & S. Giant Stringless Green Pod Beans

Our finest quality, large handsome pods, some of which measure fully 6

inches in length. Very productive, very fleshy and entirely stringless. Specially adapted to the home garden. Ft. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.

**Full Measure**—A recent introduction. Heavy light green foliage. Very prolific. Pods 5½ to 6 inches long, stringless, round, slightly curved, very good quality. Ft. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.

**Dwarf Horticultural, or Cherry**—This is a broad, long, flat, meaty bean, very productive, of delicious flavor. It also makes a good dried bean for winter. Ft. 25c; qt. 40c; pk. \$2.50.

**White Navy, or Boston Pea Beans**—Yields large quantities of white shell beans, which are used for baking. Ft. 15c; qt. 30c; pk. \$1.75.

**Red Kidney**—Like the above, but the seed when ripe is brick red, very rich quality and fine flavor. Ft. 25c; qt. 40c; pk. \$2.25.

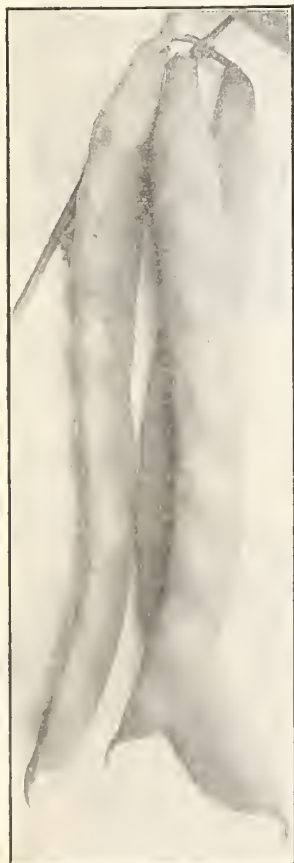
**Large White Marrow**—A recent introduction. This bean has a vigorous branching habit, vines covering the ground. Season medium late and beans of large size and of good quality both for shelling and using in the green state, or when ripened. They are much esteemed for cooking on account of their rich flavor. Pods 4 to 4½ inches long, flat, nearly straight. Pint 30c; quart 50c; peck \$3.00.

We furnish 5c and 10c packages of all Beans.

**Farmogerm Nitrogen Fixing Bacteria for all kinds of Beans**—Means bigger crops, healthier vines, early and more continuous crops. Garden size, 50c; \$1.00 per acre bottle; 3 acres, \$2.50; 12 acres, \$9.00. It will pay you to use this when you plant peas and beans. (See index.)



M. & S. Giant Stringless  
Green Pod Beans.



Black Valentine, or  
May Queen Beans.

## Wax Pod Varieties

**M. & S. SURE CROP STRINGLESS WAX**—This is a grand bean of recent introduction. Absolutely stringless and a great rust resister. Will produce an abundance of long yellow flat pods. Ft. 25c; qt. 50c; pk. \$3.00; bu. \$10.00.

**Hodson Wax**—A fine strong growing bean. Pods 6 inches long, golden waxy color. Nearly straight, thick, flat and meaty. Ft. 25c; qt. 40c; pk. \$2.25; bus. \$7.50.

**Currie's Rust-Proof Black Wax**—Valuable for general use, being early, hardy, and a heavy yielder. Extra long flat pods of fine color and not apt to rust. Ft. 25c; qt. 50c; pk. \$3.00; bus. \$10.00.

**Dwarf Black Wax**—Pencil pod strain. It is so good that it is worthy of special notice. The pods are round, brittle, of handsome golden yellow color, and of buttery flavor when cooked. Ft. 25c; qt. 40c; pk. \$2.50; bus. \$8.00.

**Wardwell's Kidney Wax**—In growth of vine and productiveness this variety exceeds any other wax-podded bean. The long flat pods are of handsome appearance and usually free from rust. Ft. 25c; qt. 40c; pk. \$2.50; bu. \$8.00.

**Improved Golden Wax**—Small plants of erect growth, bearing flat thick pods about 5 inches in length, and of excellent quality. An early and reliable variety, recommended for home use. Ft. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.

**Round Pod Kidney Wax**—This mid-season variety is exceedingly handsome and very desirable, especially for snaps for the home garden. Vines dwarf, spreading and very productive. Leaves roughened. Pods long, slightly curved, light yellow, wax-like, stringless and of the best quality. They are uniformly perfect, an ill-shaped one being rarely

M. & S.  
Sure Crop  
Stringless  
Wax.

seen. Seed long, cylindrical, medium-sized, nearly white, with a little dark marking about the eye. Ft. 25c; qt. 40c; pk. \$2.25; bus. \$8.00.

**Davis White Kidney Wax**—Pods remarkably straight, long and handsome, waxy white color; enormously productive; seed white. Ft. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.

## Pole String Beans

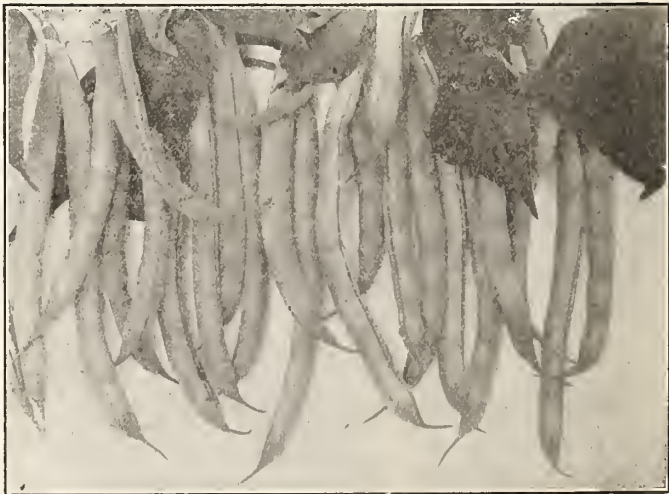
(GREEN AND WAX POD)

**CULTURE**—Same as Pole Lima.

**M. & S. Golden Cluster Wax**—Deep yellow flat pods, often 8 inches long. Heavy yielder, bearing in large clusters. Ft. 30c; qt. 60c; pk. \$3.00.

**Yard Long, or Snake Beans**—This is an ornamental as well as useful pole bean. Produces an abundance of dark green foliage and stringless green pods, often measuring from two to three feet long, which when cooked make a delicious dish. Seeds very small. Pkt. 5c and 10c; oz. 25c.

**Horticultural or Pole Cherry**—Pods green, dashed with red when beans are matured. Very showy. Ft. 25c; qt. 40c; pk. \$2.25.

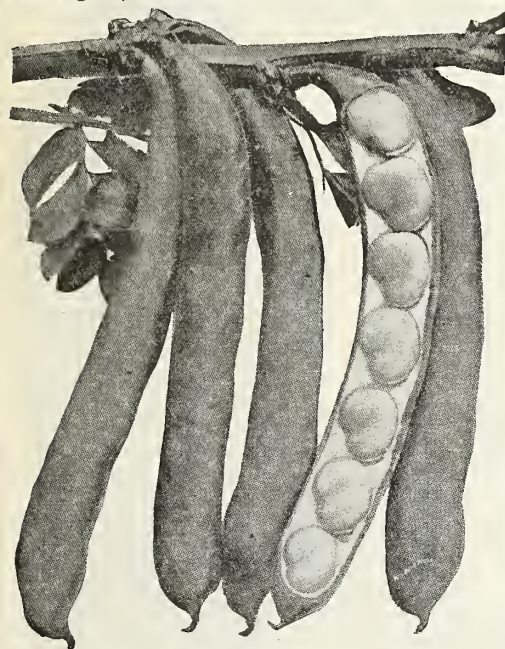


Kentucky Wonder, or Old Homestead.



**Kentucky Wonder, or Old Homestead**—The most popular of the pole varieties, and should be in every garden where beans are planted. It grows luxuriantly and bears for a long period. Pods are very long, very fleshy and deeply creased or saddle-backed, green in color and stringless. Seed light brown. **Pt. 25c; qt. 40c; peck \$2.50.**

**Lazy Wife, or White Cherry**—Pods 6 to 8 inches long, entirely stringless, of a rich, buttery flavor when cooked as a snap bean; also a good, white shell-bean for winter. One of the very finest flavored. **Flint 30c; quart 50c; peck \$3.00.**



English, or Broad Windsor Beans.

**M. & S. Kentucky Wonder Wax**—Same as above with exception of beautiful yellow pods. **Pt. 30c; qt. 50c; pk. \$3.**

## English, or Broad Windsor Beans

**CULTURE**—Same as Bush Limas, only plant thinner. A bean similar to Lima Beans, but a different flavor and larger. Should be planted early, March or April, as they are very hardy. **Pt. 35c; qt. 60c; pk. \$4.**

We can furnish 5c and 10c packages of all Beans.

**FARM OGGERM Nitrogen-Fixing Bacteria** means bigger crops, healthier vines, early and more continuous crops. Garden size, 50c; \$1.00 per acre bottle; 3 acres, \$2.50; 12 acres, \$9.00. It will pay you to use this when you plant peas and beans. (See index.)

## Bush Lima Beans

1 qt. to 100 feet of drill.

**CULTURE**—Plant in rows two feet apart, and about one foot apart in the rows.

**M. & S. Enormous Bush Lima Beans**—As the name implies, these are truly enormous, bearing in abundance, large pods which are filled with delicious large beans. **Pt. 30c; qt. 50c; pk. \$3.00.**

**Henderson's Dwarf Lima**—Beans are small (but their flavor is excellent. **Pt. 30c; qt. 50c; pk. \$2.75.**

**Burpee's Bush Lima**—Pods abundantly and well filled with handsome beans. **Pt. 30c; qt. 50c; pk. \$2.75; bus. \$9.50.**

**Fordhook Bush Lima**—Beans large, round, thick, green and of delicious flavor, bearing in clusters of from four to eight, averaging four large beans to the pod. **Pt. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.**

## Pole Lima Beans

**CULTURE**—These require pole 8 to 10 feet long. The beans should be planted in May if the season is suitable. Set poles four feet apart each way, and plant 4 to 6 beans, about 1 inch deep, around each pole. Thin out to three plants to a pole, if the soil is rich; pinch off the ends of plants when they overrun the top of the poles to effect a more perfect growth below. Lima Beans for early use may be grown in frames and transplanted. 1 quart to 100 poles.

## KING OF THE GARDEN

Vigorous grower, bearing large pods, 5 to 8 inches long. Beans large and of rich flavor. **Pt. 30c; qt. 50c; pk. \$3.00; bus. \$10.00.**

**Dreer's Improved, or Potato Lima**—Beans round and thick, of delicious flavor, easy to shell, immense crop. **Pt. 30c; qt. 50c; pk. \$3.50.**

**Carpenteria Early Lima**—Very fine, immense beans, which retain their green color a long while. **Pt. 30c; qt. 50c; pk. \$3.00.**



M. & S. Enormous Bush Lima.

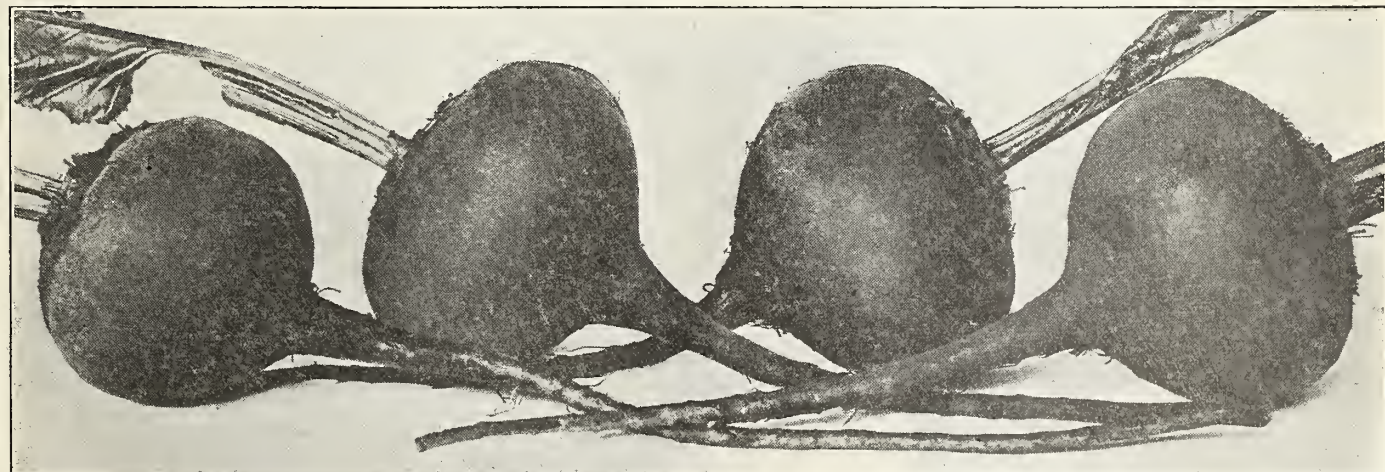
## TABLE BEETS

(German—Rote Rueben. French—Bette)

One ounce of seed sows sixty feet of drill; five pounds will sow an acre in drills.

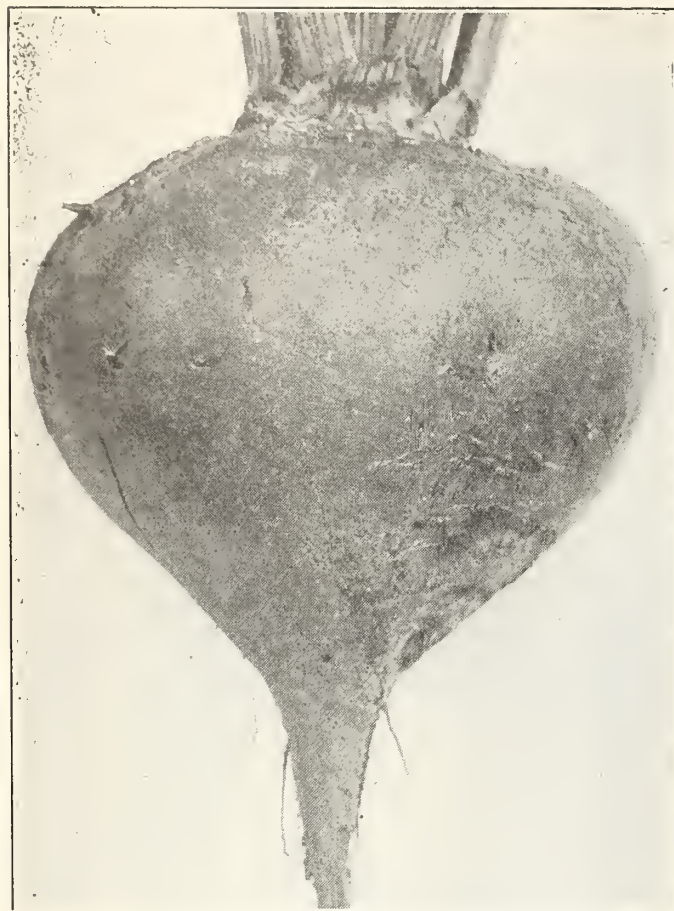
**CULTURE**—The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early, sow in hotbeds and transplant; but for main crop sow in the Spring as soon as the ground becomes fit to work, in drills 18 inches apart and two inches deep. For winter use sow as late as June. When the plants have at-

tained three or four inches in height, thin out so that they stand five to six inches apart. Keep free from weeds. Before freezing weather sets in, the roots may be stored in cellars or pits, same as Potatoes; dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.



Use Manure for your Garden Crops. We can sell you a whole cart load in a bag of M. & S. Sheep or Cattle Manure, for much less money than a cart load costs.





"M. &amp; S." Early Marvelous Beet.

**"M. & S." EARLY MARVELOUS BEET**

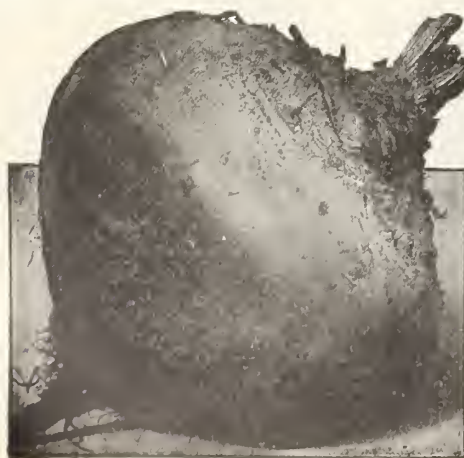
The Ideal Beet for the market or home garden; in shape it is nearly a perfect globe, about 10 inches around with smooth skin free from rootlets; the flesh is a rich blood red nicely ringed, never stringy, and always tender and sweet; excellent for canning. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 35c; lb. \$1.25.**

**Extra Early Flat Egyptian**—Maturing in an incredibly short time. Bulbs half globular, or flattened at the poles; roots very slim, skin smooth, leaves red and green, flesh quite dark. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 90c.**

**Crosby's Improved Egyptian**—Very desirable. Thicker in body than the Egyptian, small necked and dark fleshed. Fine for early market. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Extra Early Eclipse**—Maturing in an incredibly short time, round-shape beet. Small top, and of excellent table qualities. Makes an attractive seller in market. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Edmand's Blood Turnip**—This beet of American origin is the most uniform of all Turnip Beets. The root is always smooth, round and handsome; tops are small; of good marketable size. Color dark red, flesh purplish, crisp, tender and sweet. An excellent keeper. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**



Detroit Dark Red Beet.

**Detroit Dark Red**—Blood red, early, turnip-shaped variety. Has small upright top; fine round shape. Skin and flesh dark blood-red. Very tender and sweet. Remarkably uniform in growth and a particularly desirable sort for truckers and market gardeners. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Long Smooth Dark Blood**—This variety has long, slender roots. The beets are seldom more than two inches through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality sweet and tender. **Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.**

**BEET PLANTS**, see page 3.

**Crimson Globe**—A second early variety, does not grow large and coarse, the matured beets being medium in size and good shape. The flesh and skin are both very dark and quality fine, being sweet and tender. The tops are small and dark in color. **Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.**

**SWISS CHARD**, see page 18.

**Cow Beets****MANGEL-WURZEL  
RUEBEN**

(German—Runkelrueben)  
(French—Betterave)

Used for feeding cattle.

Sow five pounds per acre.

**CULTURE**—Sow in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 ins. and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel.

**Golden Tankard**—The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. **Oz. 10c; ¼ lb. 15c; lb. 50c; 5 lbs. \$2.00.**

**Improved White Sugar Beet**—An improvement on the other varieties of sugar beets, harder, and containing a greater percentage of sugar. **Oz. 10c; ¼ lb. 20c; lb. 60c; 5 lbs. \$2.50.**

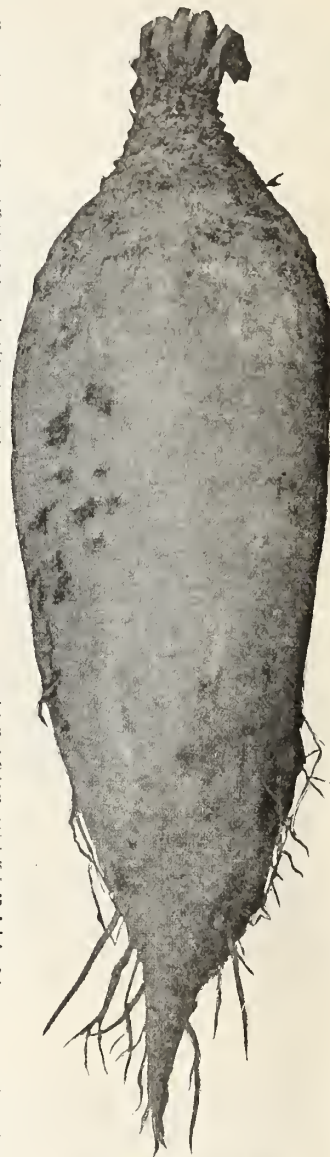
**Sludstrup Barres Mangel**

Recently introduced from Denmark. The finest, largest and the most prolific Mangel in existence. Half-long, stump-rooted, yellow flesh. Outside color orange with red top. **Oz. 10c; ¼ lb. 15c; lb. 50c; 5 lbs. \$2.00.**

**Jumbo Mangel**—Immense, long, red, very fine quality. **Oz. 10c; ¼ lb. 15c; lb. 50c; 5 lbs. \$2.00.**

**Gate Post Mangel**—Large, yellow, excellent sort. **Oz. 10c; ¼ lb. 15c; lb. 50c; 5 lbs. \$2.00.**

**Mammoth Long Red**—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing 20 to 40 lbs. The best long red mangel and very valuable for stock feeding. **Oz. 10c; ¼ lb. 15c; lb. 50c; 5 lbs. \$2.00.**



Gate Post Mangel Beet



Golden Tankard.



## M. & S. CHOICE CABBAGE SEED

(GERMAN—KOPFKOHL. FRENCH—CHOU)

One ounce will produce about 2,500 plants; one-quarter pound for transplanting an acre.

**Culture**—Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows two feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows three feet apart and two feet in rows. Never plant in the same ground two years in succession.

Our Cabbage Seed is all grown from selected heads only, by a specialist on Long Island.

### Early Varieties

**M. & S. COPENHAGEN MARKET**—A valuable new early cabbage from Denmark, producing a large globe-shape head, which comes into market along with Charleston Wakefield. It is well known that Denmark is a great cabbage and cauliflower country, and our seed comes direct from the originator. Produces fine, large heads uniform in shape and size and very solid, with few loose leaves. It is a vigorous grower and an excellent keeper. **Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.**

**New Early**—The largest of the early cabbage. The head is roundish flat and remarkably solid. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Early Flat Dutch**—A dwarf-growing type, principally used for early summer. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**



Early Jersey Wakefield Cabbage

**Early Jersey Wakefield**—The finest oblong-shaped cabbage in existence. The head is solid, there being very few outside leaves. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Large Charleston Wakefield**—Similar to Early Jersey, but the heads are more blunt, equally as solid, while almost twice the size, but matures one week later. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Early York**—Resembles the Early Wakefield somewhat, but the heads are more pointed and not so early. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Early Winnigstadt**—One of the best medium early pointed cabbages, very hearty and heading. Heads of good size, very hard and of excellent quality. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**All Head Early**—A thoroughbred sort, especially recommended on account of its uniform size and shape and reliability for heading. Makes a deep, flat head, solid and uniform in color, shape and size. In tenderness it is unsurpassed. Can be grown either for summer or winter use. By reason of its compactness it can be planted closer and will yield more heads to the acre than varieties of a spreading habit. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

### Second Early Varieties

**Early Drumhead**—A large solid roundish flat-headed sort with few outer leaves. One of the best sorts to follow the Large Charleston Wakefield. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Henderson's Early Summer**—The leaves have a more bluish cast than other cabbages; the heads are roundish flat. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Succession**—A very popular sort with the market gardeners. It matures about 10 days later than Early Summer. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Surehead**—As its name indicates, this is a sure header and one of the most reliable main crop and late cabbages. Heads are large, thick, somewhat flattened, very uniform in size and color, firm and solid, keeps well and makes a splendid shipper. Heads ordinarily weigh 10 to 12 pounds each, and of the finest quality. Surehead has all the good qualities that make for a first-class main crop cabbage. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**



Red Dutch Drumhead

### Late, or Winter Varieties

**All seasons. (Vandergaw)**—A very large head, round and solid. It is valuable for Summer or Winter use. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

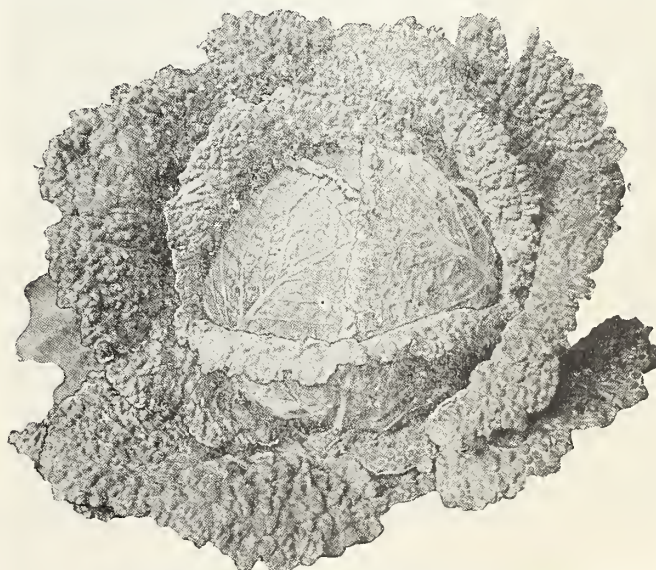
**Danish Ballhead**—An elegant medium late variety. **Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.**

**Late Flat Dutch**—Improved Strain. This has been selected especially for our trade, and seed was taken from the finest type of heads which were selected for solidity and uniformity. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Large Late Drumhead**—Much like the above except the heads are not quite as large nor as flat. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**

**Red Dutch Drumhead**—A red variety, used extensively for pickling. **Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.**

**Perfection Drumhead Savoy**—A beautifully crimped-leaved sort, color a deep glossy green. The head is almost round. **Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.**



M. & S. PERFECTION DRUMHEAD SAVOY CABBAGE  
(German—Wirsing Kohl. French—Choufrise.)

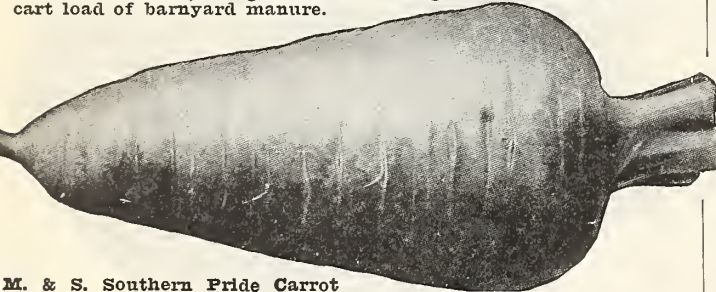


## Chinese Cabbage, or Celery

**Pe Tsai**—Improved Chinese Cabbage. The market appearance of this cabbage in quantity the past few years has created a widespread demand for the seed. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late cabbage, planting in July (turnip planting time), as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings thinned two or three times. The full-grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or as a salad, or cooked. Boiled, minced and seasoned with butter, it is especially delectable. **Pkt. 10c; ½ oz. 25c; oz. 45c; 2 ozs. 75c; ¼ lb. \$1.25.**

**Wong Bok**—Similar to the above; considered more choice by a great many. **Pkt. 10c; ½ oz. 25c; oz. 45c; 2 ozs. 75c.**

**Do not forget to include in your Spring Order a bag of Sheep or Cattle Manure, a bag of manure will give as much result as a cart load of barnyard manure.**



M. & S. Southern Pride Carrot

## Carrot

(German—Moeshe oder Gelbe Rube. French—Carotte)

One ounce to 100 feet of row. 2 or 3 lbs. to acre.

**Culture**—A light, loamy soil that has been well manured the previous year is preferred for growing carrots, although good crops may also be obtained from ordinary garden soil. For early use seed may be sown in hotbeds from January until March, and in the open ground as soon as the weather becomes warm and settled, usually in April. Sow seed one-half inch deep in rows 15 inches apart, and later thin to five inches in the row. Keep soil between the rows well hoed and free from weeds. From July 1st to 15th sow for Winter crops.

**M. & S. SOUTHERN PRIDE**—An ideal medium early, stump-rooted Carrot; smooth and uniform in shape, averaging five inches in length, with thick, heavy shoulders, rather large tops and deep orange color, almost coreless and of fine flavor. Positively the best carrot for home garden or market. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.**

**Parisian Forcing**—Extremely early, of small size, but very sweet, tender and beautiful orange-red color. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.**

**Chantenay**—Top medium sized, neck small, roots tapering slightly but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender. Although this is a medium early sort, it furnishes roots of usable size as early as any, is a heavy cropper, and is undoubtedly one of the best for both the market and private garden, and its great productiveness makes it desirable as a field sort. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 90c.**

**Pride of Market Carrot**—Similar to the above. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 90c.**

**Danvers, or Half-Long Orange**—Owing to its enormous yield, this variety is the best and most profitable for main crop, also desirable for feeding cattle. It is somewhat longer, thicker and a better keeper than the Chantenay. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Guerande, or Oxheart**—A short thick carrot not exceeding four inches in length and about the same in width which does quite well on hard, heavy soils where the longer varieties are useless. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Long Orange Improved**—The longest and latest of all carrots; unsurpassed for its keeping qualities. Fine for feeding stock. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**White Belgian**—Used principally for stock, not being desirable for table, produces a long thick white root. It is also used for turning under, being a valuable humus maker. It is 8 to 10 inches long, has green top. **Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.**

## Cauliflower

(German—Blumenkohl. French—Chou-Fleur)

One ounce of seed for 1,500 plants.

**Culture**—When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep rich soil, and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of Cabbage. For early

Fall crops, sow in May and transplant in June, in rows four feet apart, setting the plants two feet apart in the row; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich, liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are gathered loosely together and tied over the top of the head to protect it from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering one-half inch deep.

**M. & S. EARLY SNOWBALL**—An extremely early dwarf variety, producing magnificent white heads of fine quality. Well adapted to hotbed culture and outdoor. **Pkt. 10c, 25c and 50c; oz. \$1.50.**

**Dry Weather or Danish Giant**—The great drought resisting variety; the heads are large, snow white and are protected with a liberal growth of foliage. This is the ideal variety to plant for summer use if you want to be sure of cauliflower at that season. **Pkt. 10c, 25c, 50c; \$1.50 per oz.**

**Select Early Dwarf Erfurt**—Of highest excellence, and for field culture not much surpassed by any type of newer name. Some so-called new varieties appear to be identical with Select Erfurt. **Pkt. 10c, 25c and 50c; oz. \$1.50.**

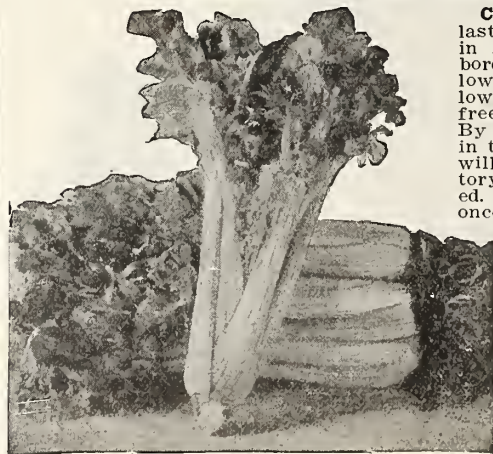
**Veitch's Autumn Giant**—A distinct and valuable late variety; heads large and fine, well protected by foliage. **Pkt. 10c; oz. 75c.**

CAULIFLOWER PLANTS, PAGE 3

## Celery

(German—Sellerie. French—Celeri)

One ounce will produce about 2,000 plants.



M. & S. Magnificent

**Culture**—Sow the last of March or early in April, in an open border, in rich, mellow ground, in shallow drills, watering freely in dry weather. By rolling or pressing in the seed the result will be more satisfactory than when covered. Cut the tops off once or twice before planting out, to make them stocky. When the plants are five or six inches high transplant the dwarf varieties 3 feet, and the taller sorts 4 feet between the rows; plant 6 inches apart in the rows. Cultivate well, and when large enough, blanch by earthing up.

The first operation is that of "handing," generally done the beginning of September; after the soil has been drawn up with the hoe it is drawn closer around each plant by the hand to keep the leaves firm, in an upright position, and to prevent spreading. When the plants have become set in an upright position the Celery wanted for early use should be banked, by throwing the soil up as close to the plants as possible with a plow and finishing it with a spade, bringing the earth up nearly to the tops of the plants.

**M. & S. MAGNIFICENT**—It is well named for its many good qualities; it is a semi-late sort, coming into use about January. The stalks which blanch almost white are exceedingly brittle, so that it has a tendency to melt in the mouth; it is a truly good sort and should be planted extensively. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

**M. & S. MONARCH**—This variety is a decided acquisition in green Celery, producing large stalks, and magnificent bright golden yellow heart. The stalks are very solid, brittle and of most delicious flavor, and entirely free from stringiness. It is a remarkably good keeper and presents a handsome appearance when ready for the table. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

**French Golden Self-Blanching**—For early use; preferred by many to all other sorts; as self-blanching as White Plume, and simply needs a slight earthing-up. The entire plant is an attractive yellowish green, and approaching its maturity the inner stems and leaves become a beautifully waxy golden color. Grows to a good size, very tender, crisp and solid, and when well grown is of excellent quality and very beautiful. Seed supply very limited. **Pkt. 10c and 25c; oz. \$1.00; ¼ lb. \$3.50; lb. \$13.50.**

CELERY—Continued next page.



**CELERY—Continued.**

**American Self-Blanching**—Pkt. 5c and 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c.  
**White Plume**—Unsurpassed for Fall and Early Winter use, requiring very little earthing-up to blanch it. Pkt. 5c and 10c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**Giant Pascal**—The stalks are very large, thick, solid, crisp and of a rich, nutty flavor; it blanches very easily and quickly, and retains its freshness a long time. Pkt. 5c and 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50.

**Golden Heart**—Largely used, always giving satisfaction; a showy sort; solid, of fine flavor and a good keeper. Pkt. 5c and 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50.

**Boston Market**—A short, bushy, white, solid, excellent flavored market variety, constantly increasing in demand. Pkt. 5c and 10c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**Winter Queen**—This variety grows a very thick, solid and heavy stalk, and has a large heart. It is a close, compact grower, and when blanched is a creamy-white color. Pkt. 5c and 10c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**Victory**—Runs a close second to the above, very similar. Pkt. 5c and 10c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**CELERY PLANTS, SEE PAGE 2**

**Giant Prague Celeriac**—This is unquestionably the largest and best Celeriac in existence. The roots are very large, twice as large as the Erfurt, almost globe-shaped, smooth, with only a few roots at the bottom. Flavor is excellent. Pkt. 5c and 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50.

## Georgia Collards

**Georgia Collard**—Culture like Cabbage. The lower leaves are pulled off and used same as Cabbage Sprouts and Kale; will be found very delicious if you have never tried it; give it a place in your garden this coming season. Pkt. 5c and 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c.

## Corn Salad

(German—Acker Lattig.  
French—Mache)

**Culture**—Sow in Spring, in drills one foot apart; it will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September.

**Large Leaved** —  
Pkt. 5c; oz. 15c;  
 $\frac{1}{4}$  lb. 25c; lb. 75c.



Corn Salad

## SWEET, or SUGAR CORN

Bushel prices furnished on application

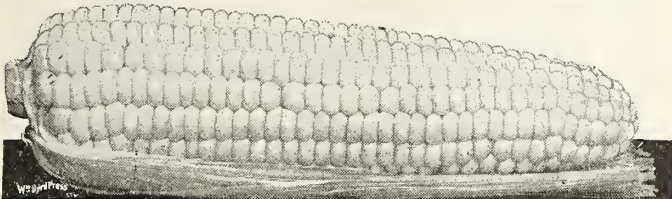
(German—Zuckermals. French—Mais)

One quart will plant 200 hills; eight quarts in hills to acre.

**Culture**—The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession, continue planting every two weeks, until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. Extra early varieties can be planted 18 inches in the row and  $2\frac{1}{2}$  feet between the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

**Golden Bantam**—Extremely early. A true sugar corn. The grain when ripe is a bright golden-yellow, the flavor is exceptionally rich and sugary. Produces from two to three good ears to the stalk. Pt. 15c; qt. 30c; pk. \$1.75.

**Black Mexican**—An old favorite, being very tender and sweet. Pt. 20c; qt. 35c; pk. \$2.00.



M. & S. Snow White Evergreen Sugar Corn

**Extra Early Adams**—Height of stalk three to four feet, ears set within six inches of ground. Not a sugar corn, but a decided acquisition so early in the season. Pt. 15c; qt. 25c; pk. \$1.25.

**Early Adams**—Similar to Extra Early Adams; larger, but not so early. Pt. 15c; qt. 25c; pk. \$1.25.

**EARLY SHEPHERD**—The best early Sugar Corn for truckers, making fine large ears. Pt. 15c; qt. 30c; pk. \$1.50.

**Howling Mob**—Another new early Sugar Corn, with fine, large ears, excellent for truckers or the home gardener. Pt. 20c; qt. 35c; pk. \$1.50.

**M. & S. SNOW WHITE EVERGREEN SUGAR CORN**—It produces large uniform ears, which are well filled to the top with beautiful white kernels; it is 10 to 12 days earlier than Stowell's Evergreen. Splendid sort for market and home garden; keeps well after being cut. Pt. 25c; qt. 40c; pk. \$1.75.

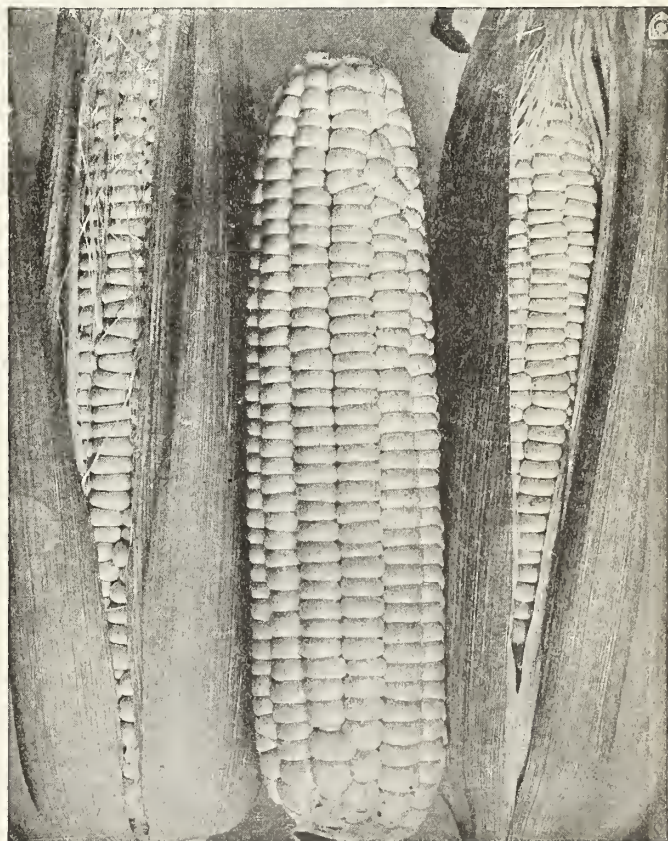
**Country Gentleman or Shoe Peg**—A short-stalked, productive sort. Ears large for so small a stalk; grain narrow and very deep; excellent quality. Pt. 20c; qt. 30c; pk. \$1.50.

**Stowell's Evergreen**—Matures for table in about 80 days from germination. Pt. 15c; qt. 30c; pk. \$1.25; bu. \$4.00.

**Stowell's Evergreen on Ears**—Each 10c; dozen 75c.

**Peep-O-Day**—This corn has two valuable points—extraordinary earliness and unsurpassed sweetness. Pt. 15c; qt. 30c; pk. \$1.50.

**GOLDEN CREAM**—The originator says: "It is good enough to eat raw." It is a cross between Country Gentleman and Golden Bantam; has the color of the latter and the fine quality of the former. It is really a very early yellow Country Gentleman—that means earliness, good size and first-class roasting ears. Pt. 15c; qt. 30c; pk. \$1.75.



Howling Mob Sugar Corn

**SUGAR CORN**—Continued on next page.

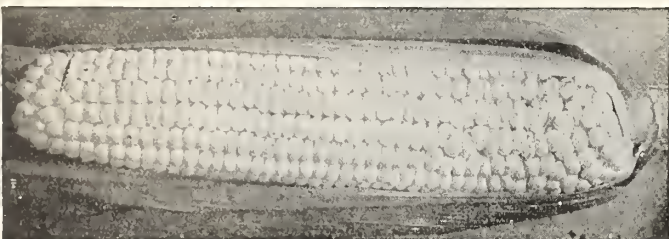


## SWEET OR SUGAR CORN—Continued

**Early Mammoth**—Large ear, and early; splendid early market sort. Pkt. 15c; qt. 30c; pk. \$1.25.

**Late Mammoth Sugar**—The strongest growing of all sugar corns. Takes 85 days to reach maturity for table. The ears are very large and showy. Pkt. 15c; qt. 30c; pk. \$1.25.

**Red Cob, or 90-Day Corn**—A distinct and well-known sort of white corn; matures in about 90 days; produces large, handsome ears. ¼ pk. 25c; pk. 75c; bus. \$2.50.



Early Mammoth Sugar Corn

## Cress

(German—Kresse)

**Water Cress**—Sow early in spring near pond or running water; when established will last for years. Pkt. 10c; oz. 50c.

**Land Cress or Pepper Grass**—Sow in early spring in rows two feet apart, and repeat often as it runs to seed very quickly. Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c.

**Chervil**—Sow like the above, used as a salad seasoner. Pkt. 5c and 10c; oz. 25c.

## Cucumber

(German—Gurke. French—Concombre)

One ounce will plant fifty hills; two pounds, one acre.

**Culture**—For very early Cucumbers, sow the first of April in a hotbed, upon pieces of sod or in small pots, so that they can be readily transplanted to the open ground (in rich soil) when danger of frost is over. For general crop plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill. They succeed best in a warm, moist, rich, loamy soil. For succession sow until the middle of August.

**M. & S. COOL AND CRISP**—Ideal for home and market gardening. Extra early and very prolific, long straight, slender and very dark green; good either for pickling or slicing. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Early Fortune**—A great favorite with our Anne Arundel County farmers for its early maturity, productiveness, uniformity in large size and dark green color. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00.

**New Klondike**—One of the best for shippers. Grows vigorous vines, fruits early and abundantly. Dark green in color, large size, and of fine flavor. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00.

**Improved Early White Spine**—The old standard favorite. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c. Special prices on large quantities.

**Arlington White Spine**—Another standard sort. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c. Special prices on large quantities.

**Improved Long Green**—Long and crisp; a popular and reliable variety for pickles. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.



Early Fortune Cucumbers

**Jersey Pickle**—Productive and said to "green" better than any other variety, and to "hold color." Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.

**Livingston's Evergreen**—A very strong grower, very early, bears firm crisp fruit, which is excellent for slicing or pickling. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.

**Early Green Cluster**—A short, prickly variety, bearing clusters, prolific. Fine for bottle pickles. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.

**Small Gherkin, or Burr**—Used only for pickling while young and tender. Pkt. 5c and 10c; oz. 25c.

**Danish Pickling Cucumber**—A new introduction from Denmark. Seeds extremely scarce. A very prolific grower producing small dark green warty fruit, especially desirable for pickling. Pkt. 10c; oz. 25c.

M. & S.  
Cool and  
Crisp

**Japanese Climbing**—Distinct from other varieties, being a real climber. Very prolific of fruit. A valuable, interesting novelty. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c.

**English Forcing Telegraph Cucumber**—These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them. Pkt. of 12 seeds, 25c; 100 seeds, \$1.25.

## Eggplant

(German—Eierpflanze. French—Aubergine)

One ounce will produce about 1,000 plants.

**Culture**—Eggplant seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore, repeated sowings are sometimes necessary.

**M. & S. Ebony King**—As its name implies it is almost black, large size, perfect shape, thornless, great drought resister and splendid bearer. Pkt. 10c; ½ oz. 25c; 1 oz. 50c; ¼ lb. \$1.75.

**New York Improved Purple**—The leading market variety; of large size, skin deep purple, smooth, free of thorns; flesh white, of excellent quality; very productive. Pkt. 5c and 10c; oz. 35c; ¼ lb. \$1.25.

**Black Beauty**—The earliest large variety; color, rich, dark purple. Pkt. 5c and 10c; oz. 35c; ¼ lb. \$1.25.

EGGPLANT PLANTS SEE PAGE 3.

M-S. Ebony King



## Endive

(German—Endivie. French—Endive)

**Culture**—Sow in June, July and August; cover lightly; when up thin out to eight inches apart, and water well afterwards, if dry. When the leaves are 6 to 8 inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry or they will rot. At the approach of Winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air.

**Green Curled**—Tender and crisp. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.



ENDIVE—Continued



Green Curled Endive

**White Curled**—Self-blanching. Very tender when young; blanches readily. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.  
**Broad Leaved Batavian (Escarole)**—This variety is chiefly used in soups and stews; it requires to be tied up for blanching. Pkt. 5c and 10c; 1 oz. 15c; ¼ lb. 35c; lb. \$1.00.

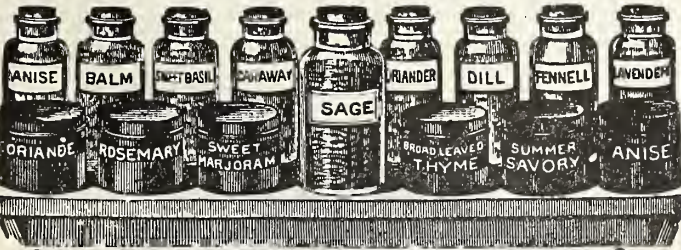


Whitloof Chicory

Whitloof Chicory, or  
French Endive

(German—Succory, French—Chicoree)  
**Whitloof Chicory, or French Endive**—Known in restaurants as French Endive. We want to get our customers interested in this delicious vegetable, and feel confident that after it has once been tried it will become quite as popular as Swiss Chard, which was only planted very sparingly a few years ago. Every garden should have a row of Whitloof Chicory and we feel sure that every amateur or experienced gardener will be pleased with the results. Whitloof is eaten raw or as a salad, and is also sometimes cooked like ordinary Endive. Pkt. 5c and 10c; oz. 25c; ¼ lb. 90c.

**Large Rooted Chicory**—The roots are dried and ground and used for flavoring or to substitute coffee. It can also be served like salsify. Pkt. 5c and 10c; oz. 25c.



Herbs

(German—Krauter, French—Herbes)

**Culture**—Herbs delight in a rich, mellow soil. Sow seeds early in Spring in shallow drills, one foot apart; when up a few inches thin out to proper distances, or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly where they can dry quickly.  
**Borage**—Pkt. 5c and 10c.  
**Caraway**—Seeds used to flavor bread. Pkt. 5c and 10c; oz. 25c.  
**Coriander**—Pkt. 5c and 10c.  
**Dill**—The seeds are used as a condiment and for pickling. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.

**Fennel**—Pkt. 5c and 10c.  
**Horseradish**—For medicinal purposes and flavoring. Pkt. 5c and 10c.  
**Lavender**—For flavoring and perfumery. Pkt. 5c and 10c.  
**Martynia**—Produces long green pods which are used for pickling. Pkt. 5c and 10c; ½ oz. 25c.  
**Pot Marigold**—Pkt. 5c and 10c.  
**Rosemary**—Leaves used for seasoning. Pkt. 5c and 10c.  
**Rue**—Pkt. 5c and 10c.  
**Sage**—For seasoning and dressing. Pkt. 5c and 10c; oz. 40c.  
**Summer Savory**—Used for flavoring. Pkt. 5c and 10c; oz. 25c.  
**Sweet Basil**—For flavoring soups. Pkt. 5c and 10c; oz. 25c.  
**Sweet Marjoram**—Leaves and ends of shoots used for seasoning. Pkt. 10c; oz. 40c.  
**Saffron**—For medicinal and coloring purposes. Pkt. 5c and 10c.  
**Thyme (Broad Leaf)**—For seasoning, also for making tea for nervous headache. Pkt. 5c and 10c; oz. 50c.  
**Woodruff**—A sweet scented herb which is used as essence in the German Maitrank. Pkt. 15c.  
**Wormwood**—Pkt. 5c and 10c.

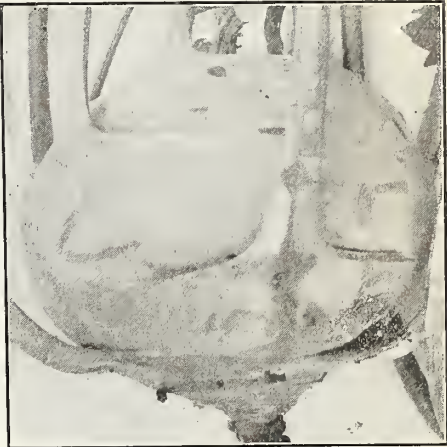
Kohl-Rabi

One ounce will sow 150 feet of drill.

This is a favorite vegetable in Europe, where it is extensively grown for table use. The bulb is formed above ground, and, if used when young and tender, makes a most delicate dish for the table.

**Earliest White Vienna**—Greenish white outside, with clear white flesh within. Smooth, short leaf. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.  
**Earliest Purple Vienna**—Same in every respect as the Earliest White Vienna, except in the outside color. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c.

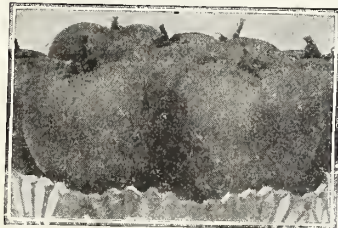
KOHL - RABI  
PLANTS, SEE  
PAGE 3.



Earliest White Vienna Kohl-Rabi

Cook's New Hybridized  
Potato Seeds

(FROM THE TRUE SEED BALLS)



Balls Half Size

thing in the Potato line. Potato Seed-Balls are vanishing. Get the seed now while you can. Millions want them. Packet 15c; 4 for 50c; 10 for \$1.00.

**Directions for Planting:** Plant early in a hotbed, or warm border. Cover seed lightly, and press firmly. Give plenty of sun. Do not crowd them. When 3 inches high, transplant two feet apart. Cultivate well; keep free of weeds and bugs. When ripe store in a cellar. The tubers will be one-half to two inches or more in diameter the first season. In two or three years they will attain full development.

SEVEN SEEDLINGS OF RARE VALUE

I have a magnificent Seedling Potato grown from your Hybridized Seed, and have raised over 400 bushels. A prominent seedsman wants to introduce them and is trying to buy me out. I have six other seedlings that are more than good.  
E. A. GOODSPEED,  
Onon, Co., N. Y.



## Don't Forget to Order That Cart Load of Manure in a 100-Pound Bag

# M. & S. CHOICE STRAINS OF LETTUCE

(German—Salat. French—Laitue.)

Two ounces of seed to 100 yards of row; one ounce for 2000 plants

**Culture**—Lettuce is now sown during most all seasons of the year. For outdoor use the seed can be sown in well-manured hotbeds in February and March. Transplant there or outdoors when the weather will permit, in rows about 12 inches apart, 10 inches apart in the row. If the salad is not to head, sow thickly and cut as desired. For best results it is well to sow only the varieties best suited to the different seasons and conditions. For winter use sow the seed in September in hotbeds and follow it with other sowings for succession.



Big Boston Lettuce

**M. & S. BELVEDERE LETTUCE**—In 1912 we introduced this grand Lettuce after having it in our trial grounds for two seasons, and we were amply repaid by the success which our Truck Farmer customers had with it. The **M. & S. Belvedere** is extremely slow in running to seed; it is therefore the ideal Lettuce to plant in the Spring, as it withstands the Summer heat better than any variety we have known so far. It is all green, no red edges, is tender and crisp and has a fine yellow heart. The seed is scarce, and we advise our customers to order quick. **Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.**

**May King**—This valuable new Lettuce is, without any question, one of the best Lettuces on the list for early Spring planting in the open ground. The heads are six to seven inches in diameter, of a clear light green, the outer leaves being slightly tinged with brown, the inner being clear, bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round, compact heads being so solid that they carry extremely well. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**



Romain White Cos Lettuce

marked with brown specks. This is a variety growing in favor. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Improved Hanson**—Large, compact, reliable header; outside leaves curled. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Romain White Paris Cos**—Has long, narrow, upright leaves; does not head, but when tied up blanches very nicely. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Best of All**—A great drought and heat resister; forms large compact heads of light green leaves and yellow heart. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Grand Rapids**—Excellent for forcing, fine quality, large, loose, yellowish-green head, stands well. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**California Cream Butter**—A good Summer sort, of reliable heading quality. Yellowish-green, slightly



M. &amp; S. Belvedere Lettuce

**Big Boston**—Resembles Boston Market, but nearly twice as large, desirable for forcing and Spring and Fall outdoor planting. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Boston Market, or White-Seeded Tennisball**—Early and compact, quite desirable, good forcer. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Oak Leaf**—Quite popular. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Improved White Loaf**—Large, compact heads. Light-green color; tender and crisp. The best Winter lettuce to plant. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Iceberg**—Leaves green, heads large, solid; one of the best large-growing cabbage lettuces. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**M. & S. STRAIN ALL-SEASON**—A cabbage lettuce of sterling merit, making larger and more closely folded heads than any other known variety. The outer leaves are a bright, soft green, the inner ones rich golden yellow. The solid heads measure from eight to ten inches across. Black seed. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Way-a-Head**—Similar to the above, but suitable for all-season in or out-door planting. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**Black Seeded Simpson Lettuce**—Fine, large, loose heads, early, finely fringed and curled; very popular for family garden and forcing. **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

**LETTUCE PLANTS POPULAR VARIETIES, SEE PAGE 3.**



Black Seeded Simpson Lettuce

Dear Sirs:—I am writing to let you know that the twenty-five I am very much pleased with them.

Yours truly,

R. I. Red pullets arrived O. K., and they are a fine looking lot.

FREDERICK AROLD, Mgr. for S. Proctor Brady, Lutherville, Md.



## Kale, or Borecole

(German—Krauskohl. French—Chou Vert)

One ounce sows a drill of about 100 feet. 2 to 3 lbs. to the acre.



Borecole—Hardy Winter

**Culture**—Sow from May to June, and cultivate same as Cabbage. For early Spring use, sow in September, and protect during Winter. The Kales are more hearty than Cabbage, and make excellent greens for Spring and Winter use, and are improved by frost.

**BORECOLE PLANTS, SEE PAGE 3.**

**Borecole, Hardy Winter**—This variety is grown and treated like cabbage. The plant attains a height of 18 inches, with an abundance of beautiful light green leaves which are densely curled and crimped. Besides being very hardy it possesses the advantage of all other varieties in forcing a second crop of moss-curved leaves as soon as the first ones are gone. This new

growth is of the finest quality, and is ready for market during the Winter and early Spring months, when it demands fancy prices. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

**Emerald Isle Kale**—This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine exhibition plant of medium height. Very hardy. Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

**Dwarf Green Kale**—Pkt. 5c; oz. 10c; ¼ lb. 15c; 1 lb. 50c.

**Tall Scotch**—Best for Summer. Very spreading, nicely curled and hardy; frost improves it. Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

**New Imperial Curled Long Standing**—The leaves are very crimped and of a dark green color. Pkt. 5c; oz. 10c; ¼ lb. 15c; 1 lb. 50c.

**Dwarf Green Curled Scotch, or Norfolk**—One of the most popular shipping sorts; very largely used in Norfolk trucking district. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

## Leek

(German—Lauch. French—Poireau)

One ounce to 150 feet of row.

**Culture**—Sow the seed and care for the young plants same as for Onions, but they need a little more room to develop fully. When the young plants are about the size of a goose quill, transplant into a prepared bed in rows one foot apart and four to five inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

**Giant Carentan**—Produces a large, thick stem and of mild flavor. Pkt. 5c and 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Amerioan or Flag**—One of the hardest and best for Winter use. Pkt. 5c and 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

Flag Leek

## Muskmelons, or Cantaloupes

(German—Melone. French Cantaloup)

One ounce will plant about 50 hills; two to three pounds in hills to acre.

**Culture**—Thrives best in light, rich soil. Plant early in May, in hills six feet apart. Manure in hill and sow seed freely. After danger from bugs is past thin to three plants per hill. When one foot long, pinching off tips makes vines branching and strong, and fruit will mature earlier. Water freely and feed liquid manure occasionally. For early use, sow in hotbed, on piece of sod.

**M. & S. GOLDEN WONDER CANTALOUPE**—Most delicious flavored golden yellow meat, which is thick and solid. Medium size, oval in shape, very vigorous and productive vines, which are great drought and blight resisters. Pkt. 5c and 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Rocky Ford**—We have a very fine stock of this popular cantaloupe. Small, oval, of excellent quality and a good shipper; early; green fleshed. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.

**Bottomly Cantaloupe**—True Anne Arundel strain. Great favorite with the Anne Arundel County truckers. Medium size, round, deeply netted, green flesh and delicious flavor. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.50.

**M. & S. DELICIOUS GOLD-LINED ROCKY FORD CANTALOUPE**—This strain of the Eden Gem type is the result of several years' selection by one of the most progressive farmers of Rocky Ford, Colo. Its shape is ideal, very slightly oval, no ribs, and it is heavily netted over the entire melon. The bloom button is small and flesh as thick at the end as elsewhere. The melon is thick meated, fine grained and sweet; color, green, with a gold margin next to the seed cavity. Our claim for this melon is its uniform shape, size and very superior quality. Its flesh is attractive and elicits favorable comment when served. Every seed we offer from this strain will be from a select melon and hand seeded. We recommend this seed for the use of Melon Growers' Associations and high-class Market Gardeners. Pkt. 5c and 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

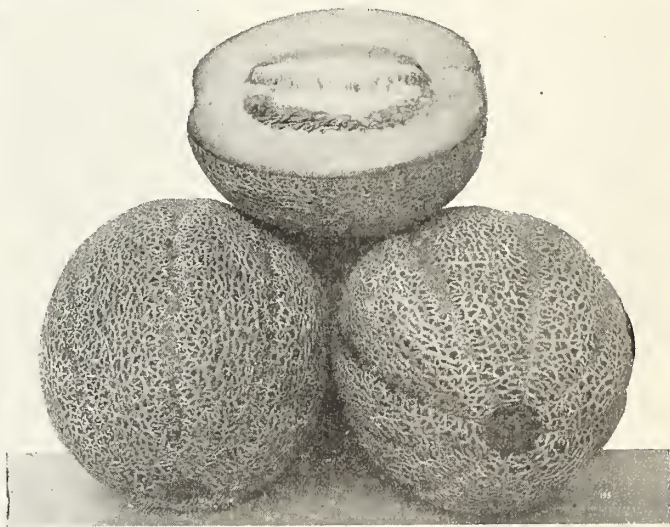
**Early Netted Gem**—One of the best of small melons, and very popular. Prolific and of excellent quality. Very early. A great favorite. Green fleshed. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.

**Emerald Gem**—Small, green skin, delicious yellow flesh. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00.

**Acme, or Baltimore Nutmeg**—A great favorite for retail market and for shipping. Large, oval, deeply netted, solid and of fine quality; green fleshed. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.

**Jenny Lind**—Very early, small, round, netted and of fine quality; green fleshed. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. \$1.00.

**Hackensack, or Turk's Cap**—A very fine, large sort; green fleshed. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 90c.



M. & S. Golden Wonder Cantaloupe

**Miller's Cream, or Osage**—Melons are large and round, with light green, netted skin, and thick, sweet, salmon-colored flesh. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00.

**Knight Cantaloupe**—True Anne Arundel County grown strain. The great favorite of the Baltimore market, of good size, deeply netted, green flesh, and delicious flavor. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.50.

**Banana**—This melon surpasses all others in its delicious fragrance. The flesh (the melon being nearly solid) is of a rich salmon. The quality is first rate when the melon is thoroughly ripe. It grows from 20 to 28 inches in length and is very prolific. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c.

**Montreal Market**—The large fruits are nearly round in form, slightly flattened at ends, with very large, broad, heavy ribs. Dark green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. This is the variety which is grown exclusively on the Island of Montreal, and commands such high prices during the Fall months. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00.

## NEW HONEY DEW CANTALOUPE or MELON

Honey Dew produces a melon with smooth, almost white rind, measuring about six inches in diameter by seven to eight inches long. The green flesh is thick and is of a peculiar sweet flavor, resembling a well-ripened banana. To have the melons in the best condition we suggest gathering (or picking) as soon as they slip from the vine and store in a cool place for two or three days before serving, as (like a Casaba) they apparently are at their best when a trifle over-ripe. While we cannot yet recommend Honey Dew for general culture, we offer selected seed at: Packet 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

WATERMELONS—SEE PAGE 17.



## Pure Culture, Spore Process Mushroom Spawn

(German—Champignonbrut, French—Champignon)



Have you ever raised Mushrooms or are you trying to and not meeting with success? The Spawn we offer is the best obtainable, and with each purchase of same we give away, when desired, a complete guide on Mushroom culture.

**Culture**—Mushrooms can be grown in cellars, sheds, hotbeds, and sometimes in the open air. Fermenting horse manure, at a temperature of about 70 degrees and mixed with an equal weight of fresh sod loam, is made into beds the required size, eight inches deep. See to it that the bed is packed solidly and evenly. In this bed plant the broken pieces of Spawn six inches apart, covering the whole with two inches of light soil, and protect from cold and rain. One brick will plant eight or ten feet of bed. The Mushroom will appear in about six weeks. Water sparingly with lukewarm water. Estimate one brick for about eight square feet of bed.

Prices for Pure Culture, Spore Process Spawn (if ordered to be sent by Parcel Post, include postage, according to zone; a brick weighs 1½ lbs). 1 brick, 25c; 5 bricks, \$1.00; 25 bricks, \$4.50; 50 bricks, \$8.50; full case, 100 bricks, \$16.00.

**Mushroom, or Hotbed Thermometers**—Wood frame, heavy brass point. Price, \$1.75. Parcel post weight, 2 lbs. Iron frame and point very strong. Price, \$1.75.

Leaflet on Growing Mushrooms free.

## Mustard

(German—Senf. French, Moutarde)

**White Mustard**—For salads and culinary purposes. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**Brown Mustard**—Stronger than above. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

## Okra, or Gumbo

(German—Safran)

Four ounces to 40 feet of drill.

**Culture**—Sow the seed thickly in rich ground about the middle of May, or when the ground has become warm, in drills three feet apart, one inch deep; thin to 10 inches apart in drills. Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious.

**White Velvet, or Lady Finger**—Bears round, white, smooth pods, unlike other varieties, which are ridged or square edged. The pods are of extra large size, and are produced in great abundance. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c.

**Improved Dwarf Green Prolific**—Of dwarf growth, but immensely productive and very early. Short, thick, green pods. Home grown seeds of superior quality. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c.

**Perkins' Mammoth Podded**—A distinct, valuable new okra. Its productiveness is simply wonderful. The pods shoot out from the stalk within three inches of the ground, and the whole plant is covered with them to the extreme of its height. The pods are of an intense green color, of unusual length—eight or nine inches—and do not get hard, as is the case with other okras. Very superior for canning. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c.



Improved Dwarf Green Prolific Okra

Gentlemen—I think it may be of some interest to you to know  
Mushroom Spawn.

## Onion

(German—Zwiebel. French—Eignon)

**American Grown Seed.** One ounce for 100 feet of drill; six pounds for one acre.

**Culture**—For sets sow the seeds early as possible in the Spring, very thickly, in drills. As soon as the tops dry off in the Summer, remove them to a dry, airy place, and early in the following Spring replant by placing the sets in shallow drills 12 inches apart and about four inches apart in the drills; the Onions of this process obtained are of a large size early in the season. They may also be grown to full size during the first season by sowing thinly in drills one foot apart and about one-quarter inch deep in March or early April, in strong land, well manured, and thinning them out to stand three or four inches apart in the drills.

**Prizetaker**—This is the large, pale yellow onion that is offered for sale in fruit stores and markets in the Fall. It grows to a very large size; flesh white, of mild and delicate flavor. The large onions are raised first year from seed, and with ordinary culture produce enormous crops. The onions sometimes go over three pounds each in weight where good soil and culture is given them. Our seed is pure and genuine. Pkt. 5c and 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

**Yellow Globe Danvers**—One of the most extensively used yellow onions. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**White Silverskin**—Ripens early; of large size, mild in flavor and excellent for Winter use; much esteemed for pickling when small. Pkt. 5c and 10c; oz. 20c; ¼ lb. 75c; lb. \$2.25.

**Large Red Wethersfield**—Grows to full size the first season from seed; almost round, large size, deep red color, and keeps well. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**White Bermuda**—They are of a mild and delicate flavor, and keep longer than any foreign variety. They will produce full-grown onions from seed the same season. Pkt. 10c; oz. 25c; ¼ lb. 75c.

**Red Bermuda**—Pkt. 10c; oz. 25c; ¼ lb. 75c.

**Chives Seed**—Pkt. 10c; oz. 75c.

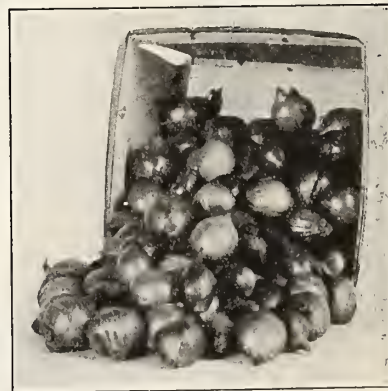


Prizetaker Onion

## Onion Sets

One quart will plant a row about 50 feet.

Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb lightly in the ground and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for Winter storage as early as July 10th. The advantage in planting sets lies in the fact that the young onion is ready in five weeks from time of planting, while those grown from seed cannot be used until well in the Autumn. Shipped on local orders about March 1st, unless otherwise requested.



Onion Sets

**Yellow Danvers**—Pt. 15c; qt. 25c; pk. \$1.00; bu. of 32 lbs. \$3.00.  
**Large Red Wethersfield**—Pt. 15c; qt. 25c; pk. \$1.25; bu. of 32 lbs. \$3.75.

**White Silver Skin**—Pt. 15c; qt. 25c; pk. \$1.25; bu. of 32 lbs. \$3.25.

**Multiplier Onion Sets**, yellow and white and Egyptian Top Onion, Brown, are furnished in September and October. Market price.

Price on Onion Sets subject to change.  
Prices on larger quantities furnished on demand.  
If ordered to be sent by Parcel Post, include postage according to zone; a quart of Onion Sets weighs about ½ lb.

That I have had wonderful results with your pure culture  
Most respectfully, MRS. J. J. GEORGE, Long Green, Md.



# M. & S. SUPERIOR HAND PICKED PEAS

(German—Erbsen. French—Pois)  
Bushel Prices on Application.

Sow one quart of seed to 100 feet of row; one and one-half to two bushels to the acre in drills.

**Extra Early Peas**—Weigh 60 lbs. to the bushel.

**Wrinkled Peas**—Weigh 56 lbs. to the bushel.  
**Culture**—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in the Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow in single rows, dwarf sorts three feet apart and tall sorts four feet apart, or in double drills, six to eight inches apart, one inch apart in the drill, and not less than four inches deep, for late sorts five to six inches deep. Deep planting prevents mildew.

Packets of all varieties of Peas, 5c and 10c.

If wanted by Parcel Post, include postage, according to zone.

Weight, 1 pt. 1 lb.; 1 qt. 2 lbs.; 1 pk. 15 lbs.

Prices on all Pea Seeds are subject to market changes.

## Extra Early Varieties

**Extra Early Alaska**—Popular among market gardeners for an early crop. The pods are medium size, dark green in color and ripen almost at one time. **Pt. 25c; qt. 40c. pk. \$2.25; bu. \$8.50.**

**Pedigree First and Best**—An excellent strain of first early peas; very popular and largely planted throughout the trucking sections. Height two to two and one-half feet. **Pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.00.**

**Market Surprise**—Larger pod than the Pedigree First and Best. Fine quality, a little longer picking season. **Pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.50.**

Continued above.

## Extra Early Wrinkled Varieties

**M. & S. WORLD'S RECORD**—The earliest wrinkled pea ever introduced. Medium vines of dark green color and heavy foliage, bearing large handsome well-filled pods measuring sometimes 4 inches and longer, filled with from 8 to 12 tender luscious Peas. The best early wrinkled variety for private and market gardeners. **Pt. 25c; qt. 40c; pk. \$2.50; bu. \$9.00.**

**Thomas Laxton**—An exceptionally fine variety, growing three feet in height and yielding large podded peas, four to five inches in length, of the finest flavor, very early. **Pt. 25c; qt. 40c; pk. \$2.25; bu. \$8.50.**

**Laxtonian**—A dwarf pea with large handsome pods. It is slightly earlier than Gradus maturing about the same time as Thomas Laxton. Vines medium dark green and medium heavy of foliage. Pods 3½ to 4 inches long, slightly curved. Will bear more abundantly at top of vines, making it easy to pick, very heavy yielder, altogether a fine pea for private and market gardeners. **Pt. 25c; qt. 40c; pk. \$2.50; bu. \$8.50.**

**Gradus, or Prosperity**—One of the most popular wrinkled sorts. Even though it matures a short time later than the extra earlies, the pods, fully as long as those of the well-known Telephone, contain very large peas that are unexcelled for sweetness. Superior variety for market or garden. **Pt. 25c; qt. 40c; pk. \$2.25; bu. \$8.50.**

**Prolific Early Market**—This is one of the largest podded and most productive of all smooth-seeded extra early peas. Vines grow about 30 inches in height, and can all be gathered in two pickings. The pods are remarkably well filled, and the peas sweet and fine flavored. A most satisfactory prolific early sort, both for the market gardener and the home gardener. **Pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.00.**

**Use Farmogerm Nitrogen-Fixing Bacteria on the Peas** you plant and be surprised by results. Garden size, 50c; one-acre size, \$1.00; two-acre size, \$2.50; 12-acre size, \$9.00.

**Long Podded Alaska**—Vines of this variety grow about three feet high and are heavy bearers. The pods, three inches long, mature shortly after Alaska and are well filled with sweet, tender peas. **Pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.50.**

**M. & S. BOUNTIFUL**—Resembling Long Pod Alaska in general habit of growth. Vines light green in color.

Pods three inches long, slightly curved. Seed bluish-green, medium size and pitted. Height of straw, 30 inches. **Pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.50.**

Larger quantities prices on application.

## Medium Early Wrinkled

**M. & S. LITTLE MARVEL PEA**—An extremely valuable variety, superior to Nott's Excelsior and American Wonder, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs, and are closely filled with seven to eight peas of extra fine flavor. **Pt. 25c; qt. 40c; pk. \$2.25; bu. \$8.50.**

**American Wonder**—Dwarfer and a trifle earlier than the preceding, but not quite so productive. The peas are sweet, tender and of delicious flavor. **Pt. 25c; qt. 40c; pk. \$2.25; bu. \$8.50.**

**Nott's Excelsior**—One of the best dwarf early wrinkled peas. It grows about 14 inches high, very productive, and the pods three inches long, generally contain six or seven large, sweet peas of the finest quality. Well recommended for home use. **Pt. 25c; qt. 40c; pk. \$2.25; bu. \$8.50.**

**Daisy, or Dwarf Telephone**—The striking features of the Daisy pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American wonder, or Premium Gem, and are always well filled with large peas of most excellent quality. The vines are 16 to 18 inches high, and, being strong and thrifty, require no support, making it an ideal variety for use where brush or stakes are not available. This pea is desirable on account of the fine appearance of the pods, and always finds a ready sale. **Pt. 25c; qt. 40c; pk. \$2.25; bu. \$8.50.**

Inoculate this  
Seed with  
**FARMOGERM**

Mr. J. W. Disney, of Hanover, Md., claims that the Commission men to whom he hauled his Alaska Peas last spring said they were the best that had been hauled to the wholesale market.

**PEAS—**  
Continued on  
next page.

Inoculate this  
Seed with  
**FARMOGERM**

M. & S. World's Record

Gentlemen—I bought one bushel of Telephone Peas from you and treated same with Inoculating Bacteria, same yielded 116½ bushels and sold for \$404.80. I beat all my neighbors. Yours truly.



PEAS—Continued

## Medium and Late Varieties

**Farmogerm Nitrogen-Fixing Bacteria for All Kinds of Peas**—Means bigger crops, healthier vines, early and more continuous crops. Garden size, 50c; \$1.00 per acre bottle; 2 acres, \$2.50; 12 acres, \$9.00. It will pay you to use this when you plant peas and beans. (See index.)

**Telephone**—For general planting this tall-growing variety is undoubtedly the most popular among market gardeners. The pods, four to four and one-half inches long, are light green in color and filled with large, sweet, tender peas. Pt. 25c; qt. 1.00; pk. \$2.00; bu. \$7.50.

**Champion of England**—A standard pea, vines grow four and one-half feet high and bear medium-sized pods of peas of good quality. Pt. 25c; qt. 40c; pk. \$2.25; bu. \$8.00.

**Improved Sugar Marrow Peas**—We have the genuine stock of this variety. This pea is the kind planted principally by the larger growers around Baltimore for late crop. It is a strong grower and produces an abundance of large, well-filled pods. Pt. 25c; qt. 40c; pk. \$2.00; 60 pounds to bushel, bus. \$7.00.

**French Canner**—Largely grown for canning. It is very productive, the pods are long, slightly curved and well filled; quality is good; late. Pt. 25c; qt. 40c; pk. \$2.00; 60 pounds to bushel, bushel, \$7.00.

**Dwarf Melting Sugar**—The pods as well as the peas of this variety are edible and both very sweet. Pt. 30c; qt. 50c.



Improved Hollow Crown Parsnip

## Parsnip

(German—Pastinake. French—Pannais)

One ounce for 200 feet of drill; five to six pounds for an acre.

**Culture**—Sow as early in the Spring as the weather will permit, in drills 16 inches apart and one-half inch deep, in a rich, deep soil; thin out to six inches apart in the rows. The quality of the roots is improved by leaving them in the ground over winter for Spring use.

**Improved Hollow Crown**—The best variety. A great cropper, roots long, very smooth, white, tender, sugary, and of excellent flavor. Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.75.

## M. &amp; S. Improved Jumbo Peanuts



Improved Jumbo Peanuts

(German — Erdnusse.  
(French — Pistache de terre)

**Culture**—Plant in May or early June, in rows about two and one-half to three feet apart, dropping the nuts eight to ten inches apart, one in a hill. Cover one or two inches deep. Cultivate three or four times with a cultivator, so as to loosen the earth and keep down weeds, and at the last working, with a shallow turn-plow throw the dirt to the nuts.

**Price**—(Shelled) — ¼ lb. 15c; ½ lb. 25c; 1 lb. 50c. Special price on large quantity.

## Pepper

(German—Pfeffer. French—Poivre)  
One ounce will produce 1,000 plants.

**Culture**—Sow in hotbeds in March or April, or on a warm, sheltered border in May, and when the season is favorable transplant in rows two feet apart and 18 inches in row, in good, rich ground.

**Large Bell, or Bull Nose**—Large, early variety; hot flavor, thick and fleshy. Pkt. 5c and 10c; oz. 30c; ¼ lb. 85c.

**Chinese Giant**—This is a real monster pepper, perfectly sweet, the fruit is green turning to bright scarlet, matures very late, a very shy seeder. Fine for stuffed mangoes. Pkt. 5c and 10c; oz. 50c.

**Perfection Pimento Pepper**—Compact plant of uniform growth. Bearing an abundance of perfectly sweet large peppers, which can be used in their green state or when the fruit has turned red. It is the best sweet pepper for the home garden. Pkt. 10c; ½ oz. 30c; 1 oz. 50c.

**Large Sweet Spanish**—A variety rivaling with Chinese Giant, is, however, not as large. Color and shape very similar, also late in maturing; for mangoes or pepper hash this is an ideal sort. Pkt. 5c and 10c; oz. 30c; ¼ lb. 85c.

**Long Red Cayenne**—Long, slim, and very pungent. Pkt. 5c and 10c; oz. 30c; ¼ lb. 85c.

**M. & S. Everbearing Sweet Pepper**—Best of all, large productive and of finest quality. The flesh is so thick and the meat so tender, that it can be fried like meat; it is so sweet that it may be eaten like an apple. Pkt. 10c and 25c; ½ oz. 40c; 1 oz. 75c.

**Mammoth Ruby King**—Good for Mangoes or pickling, very sweet. Large, quite productive. Pkt. 5c and 10c; oz. 30c; ¼ lb. 85c.

**Small Chili**—Small, red, conical pods. Very hot and prolific. Pkt. 5c and 10c; oz. 50c.

**Red Cherry**—A small round pepper, very hot. Pkt. 5c and 10c; oz. 75c.

**Neapolitan**—This variety is an excellent one, grows a long shape and somewhat narrow; it stands upright on the bushes. The fruit is sweet and bright red; a very early sort. Pkt. 5c and 10c; oz. 50c.

**Golden Dawn**—A large yellow variety, very sweet. Pkt. 10c; oz. 50c.

PEPPER PLANTS LISTED ON PAGE 3.

## Parsley

(German—Petersilie. French—Persil)  
One ounce to 150 feet of drill.

**Culture**—Parsley requires rich, mellow soil. The seed is even slower than Parsnip in germinating, and should be sown as early as possible in the Spring, in drills one foot apart, and when the plants are well up thin to one foot in the row.

When the plants are about three inches high, cut off the leaves, the plant will start a new growth.

**M. & S. GREEN CURLED BEAUTY PARSLEY**—Very handsome, dark green, and productive; very immensely curled. Dwarf habit, hardy slow going to seed; it can be cut the year around. Pkt. 5c and 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

**Champion Moss Curled**—A distinct variety of unequalled merit, beautifully crimped and curled. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Green Mountain Parsley**—Beautifully crimped and curled; perfectly hardy and vigorous grower. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Plain, or Single**—Very strong in flavor, but not curled. Pkt. 5c; oz. 10c; ¼ lb. 30c.

**Hamburg, or Rooted**—Edible roots. Pkt. 5c; oz. 10c; ¼ lb. 30c.

For better crops—Prepare your soil with our high grade Sheep Manure, we can sell you a whole wagon load in a bag at surprisingly low figure.



See Our New Introductory Offer on Potato Seed,  
Illustrated and Described on Page 13.

## POTATOES

See Our New Introductory Offer on Potato Seed,  
Illustrated and Described on Page 13.

(German—Kartoffeln. French—Pomme de Terre)



Irish Cobbler Potato

**Present Price on All Kinds:**

Peck, 75c; bushel, \$2.25; per sack, \$5.50.

Ten bushels cut tubers will plant one acre.

Prices on quantity of Potatoes furnished on application.

Potato prices subject to market fluctuation.

**Culture**—Planting may commence as early in the Spring as the ground can be worked. Place one piece every twelve inches in rows two and one-half feet apart, covering about four inches. When cutting the seed allow one eye to each piece.

Our potatoes are put up in barrel sacks of 165 lbs. each.

**Red Bliss**—Very early, thin, red skin, round, white flesh.

**Irish Cobbler**—This is an early potato of exceptional merit, which has given our trade entire satisfaction. The shape is round. Flesh is white and the eyes strong and deeply set.

**Houlton Early Rose**—The Houlton strain of the old favorite Early Rose has been the most popular on our market in recent years.

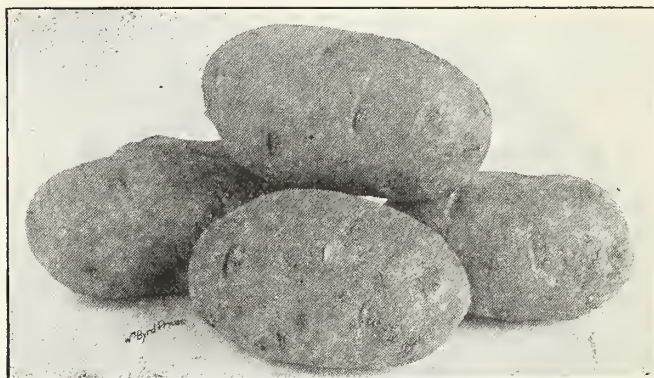
**M. & S. FILL BASKET**—On account of the large yields that have been reported on this potato, our sales on it have increased wonderfully. It is of handsome shape and most desirable for the best trade. It is a vigorous grower, ripens uniformly, is a good keeper and is fast becoming one of the most popular medium late varieties. The vines are always very heavy, the seed being especially vigorous, and tubers always good size, where soil is well tilled. Our customers will find the M.-S. FILL BASKET a very reliable potato. Very smooth and a good cooker. We can furnish nice stock while the supply lasts.

**Crown Jewel**—A well-known and deservedly popular early variety. Very productive and an excellent cooker. Skin white and smooth, eyes shallow, but strong.

**Early Ohio**—This is a very profitable variety. It is fit for use before fully ripe. It is shorter and rounder than the Early Rose, of good quality and very early.

**Improved Green Mountain, Early Norther, New Queen, Carmen No. 3, Prosperity, Burbank, McCormick, Rehoboths.** Prices furnished on application.

**Choice Seed Sweet Potatoes, Leading Varieties**—Prices on application. Sweet Potato Plants. SEE PAGE 3.



Improved Green Mountain Potatoes

## Pumpkin

(German—Kurbiss. French—Potiron)

One ounce for fifteen hills; three to four pounds plant an acre.

**Culture**—Sow in the month of May. Make hills the same as you do for squashes, but do not make the hills too close.

**M. & S. YANKEE PIE PUMPKIN**—The best Pie Pumpkin that grows. Strong vines bearing an abundance of good keeping, large handsome pear shaped, golden yellow pumpkin, which are so sweet that they require very little sugar and ripen early. Pkt. 5c and 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Cushaw, or Winter Crookneck**—An old standard variety, which is very popular. It is also used for feeding stock. Long yellow crookneck, fine grained yellow flesh, very solid. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Cushaw Striped**—Same as above, but it is green and white striped. Price, same as above.

**King of the Mammoths, or Pot Iron**—An immense variety, which always wins prize offered for the largest and best pumpkins grown to weigh over 200 pounds. Flesh of a rich, golden yellow; a splendid keeper. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Japanese Pie**—Flesh very thick, rich salmon color, fine grain, dry and sweet. Pkt. 5c and 10c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25.

**Tennessee Sweet Potato**—Excellent for pies; pear-shaped, medium size, flesh and skin creamy white, fine grained, sweet, a first rate keeper. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Cheese**—Shape flat like a cheese box; good keeper, popular. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 50c.

**Common Yellow, or Connecticut Field**—Very productive; for feeding stock Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 50c.



King of the  
Mammoths  
Pumpkin



# WATERMELON

(German—Wasser Melone. French—Melon d'eau)

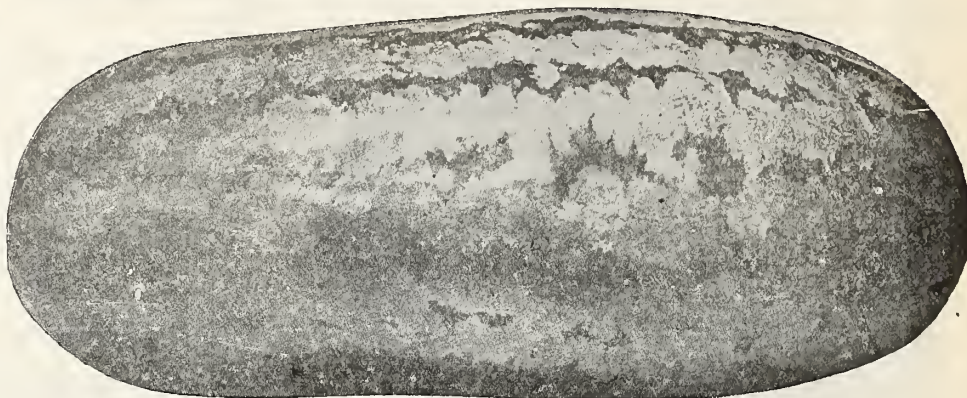
One ounce for thirty hills; four to five pounds for an acre.

**Culture**—Watermelons should be planted in hills eight to ten feet apart. Otherwise for culture, see directions for cantaloupes. Do not grow them near pumpkins or gourds.

## TRY THESE IN YOUR NEXT GARDEN

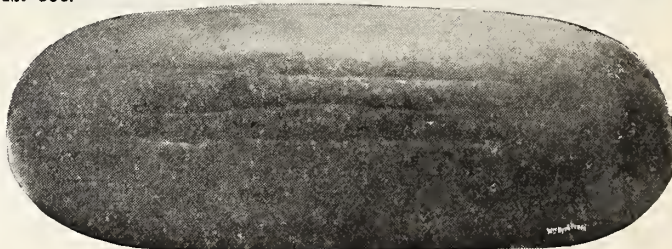
**NEW M. & S. GOLDEN HEART WATERMELON**—A decided novelty in Watermelons. Vigorous vines producing an abundance of light green melons, which have delicious yellow meat almost to the rind. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c.

**M. & S. SWEET HEART WATERMELON**—The sweetest melon that grows. The best for home use and nearby markets. The dark red meat which extends almost to the rind, is of the most delicious flavor. Vines are strong and vigorous, the melons are medium to large in size. The skin is a very rich, dark green color. Pkt. 5c and 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25.



Improved Georgia Rattlesnake

**Improved Georgia Rattlesnake**—The old Rattlesnake has always been regarded as a fine melon. Our strain is the result of careful selection by an experienced melon grower through many years of careful and watchful work. The rind is thin and tough, the flesh deep scarlet, the flavor unsurpassed by any other sort. We strongly recommend it both for shipping and home use. Our improved stock is very much superior to the ordinary Georgia Rattlesnake. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.



Tom Watson Watermelon.

**TOM WATSON**—This melon has created quite a furore wherever grown, and we believe is unquestionably the best quality shipping melon in our list. It has a dark green rind, solid red luscious meat ripening up to the rind. The rind is very tough, making it an excellent melon for shipping long distances. Its flavor and fine qualities also commend it very strongly for the private grower. It is the most popular melon on our list. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 50c.

**Kleckley Sweet Watermelon**—No other melon has ever attained such popularity for home use and nearby markets. This is a perfect melon for that purpose. Its eating qualities leave nothing to be desired. Vines strong and vigorous; melons medium to large in size; oblong. The melons grow 18 to 24 inches in length; 10 to 12 inches through. Skin a very rich, dark green color; white seeds. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**M. & S. EXCEL**—A new watermelon. Great improvement over Tom Watson. Long green. Excellent for market gardeners and shippers. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Citron**—Grows uniformly round and smooth, striped and marbled with light green. Flesh white and solid; seeds red. It should be borne in mind that this variety is not used for eating in the raw state, but for preserves, pickles, etc. Pkt. 5c; oz. 15c; 1 lb. 75c.

**Monte Cristo, or Kleckley Sweet**—Where sweetness combined with large size is desired, this variety will surely please, as it not only produces melons above the medium size, but has that crisp, sugary flavor so much desired in a watermelon. It is the sweetest of all. Oval shape, skin dark green and somewhat mottled; rind is thin, but sufficiently tough to stand carrying to nearby markets. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Florida Favorite**—Large, long, striped, excellent for family garden. Rind thin, but firm; flesh very deep red and very sweet. Splendid shipper. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 50c.

**McIver's Wonderful Sugar**—Resembles Old Rattlesnake, superior in quality. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Gray Monarch, or Long White Icing**—Very large, long, crimson flesh. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Mountain Sweet**—Popular sort; early and sweet. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Indian Chief**—Excellent shipper; none better for the private garden. Pkt. 5c and 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.



M. &amp; S. Excel Watermelon

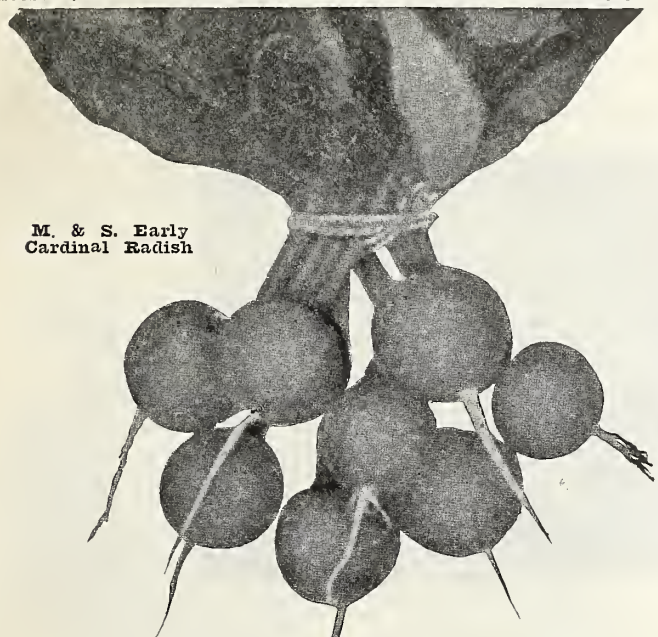


## M. & S. SELECTED RADISH SEED

(German—Radies. French—Radis)

One ounce for fifty-foot drill; ten pounds in drills to one acre.

**Culture**—To be tender and crisp Radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the Spring, sow at intervals of ten days. May also be sown as a catch crop between rows of beets, lettuce, onions, etc. Radishes can be forced in hotbeds, but must have plenty of ventilation and moisture.



M. & S. Early  
Cardinal Radish

### Extra Early Varieties

**M. & S. EARLY CARDINAL RADISH**—These are the best little crisp red radishes, which come so early in the season; they grow globular in shape and are of the most brilliant cardinal red color; are tender and crisp; will stand the heat and are fine for forcing. The most desirable kind for home garden and market gardeners' use. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**M. & S. SPECKLED BEAUTY RADISH**—This is a very early, short leaved, handsomely spotted and striped; red and white globular-shaped radish. Very tender and crisp, to be highly recommended for home garden and retail market stall. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**Scarlet Globe Early**—This variety can be used for forcing and is recommended for early outdoor planting. It is small, round, red radish, of excellent flavor; its rich, crisp, tender flesh makes it very popular. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**French Breakfast, Early**—Oblong shape, rapid grower, very mild and tender; of a beautiful scarlet color, topped with white. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Early Long Scarlet Short Top**—The principal outdoors quick-growing variety, also very good for forcing. Grown in light, rich soil, its average length is about eight inches; grows half out of the ground, straight, uniform in color, brittle, crisp, small tops, bright scarlet. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**Icicle**—A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**White Strasburg**—Handsome, oblong, tapering shape, both skin and flesh pure white; flesh firm, brittle, tender and possessing the most desirable character of retaining its crispness, even when the roots are old and large. Excellent for Summer use, as it withstands severe heat and grows very quickly. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 60c.

**New Glass, or Cincinnati Market**—A long Scarlet Radish with a distinctive white tip. A suitable radish for deep mellow soil. A fine radish for the home garden as well as an attractive one for the market stall. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**White Turnip (Short Top)**—Of quick growth; roots round, pure white, tails very thin; leaves short, flavor excellent. Fine for forcing and open ground. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

The best soil improver you can use is manure. Use plenty of it. We can sell you a whole wagon load in a 100 lb. bag of our High Grade Sheep or Cattle Manure, at a surprisingly low figure.

**White - Tipped Scarlet Globe**—A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and good quality. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Prussian Globe**—This is a short top, round red Radish, which will always stay popular on account of its good qualities; can be used for forcing and outdoors. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Ruby King, Extra Early**—Of brilliant red color, fine for forcing or open ground; roots are tender, juicy and mild. The best round red Radish that grows. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Crimson Giant**—Like above but much larger. Very desirable. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**Strawberry**—The exceptional merit of this radish is proved by its popularity increasing every year with successful market gardeners. This radish is a table dainty, crisp, tender and sweet; it is turnip shaped, bright scarlet color, and is a high class strain for out-door planting. It combines beautiful appearance with finest radish quality—appealing to the eye and palate. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.



White-Tipped Scarlet Globe

### Summer Varieties

**Large White Stuttgart**—Very large, top-shaped, flesh and skin white, fine quality, firm and brittle, seldom pithy. Can be stored for winter. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Large White Summer Turnip**—Round, smooth and very white; crisp and tender. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Golden Globe**—A favorite summer radish. Golden-brown skin, perfect globe shape, mild and brittle, slow to seed. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Long White Vienna or Lady Finger**—Has slender pure white roots which are smooth and average about 6 to 7 inches in size when matured. They are quite early and of excellent quality. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**Improved Chantier**—Somewhat resembling brightest scarlet—early radish. It is double the size and later; long scarlet and tipped with white. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

### Winter Varieties

**Long Black Spanish**—Large radish, with black skin and white firm flesh, grows six to eight inches long. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Round Black Spanish**—Like the above, except that it is round shape. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Long White Spanish**—Like the Long Black Spanish, only different in color. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Round White Spanish**—Like the Round Black, but white, like all the Spanish radishes, which are fine keepers, mild flavor and brittle. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**China Rose, or Scarlet China**—Bright rose-colored, stump-rooted, of excellent quality. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

**White Chinese, or New Celestial**—Large stump-rooted, white skin and flesh, mild in flavor, brittle and never woody. For late planting and a splendid keeper. Market gardeners will find this a good variety that sells readily. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

**Sakurajima (Mammoth Japan)**—The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as twenty-one inches long and forty-three inches in circumference. Thin well to allow of proper development. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c.

**Merima**—Also a Japanese radish. Similar to Sakurajima, but round instead of long. Very tender and sweet. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c.

**HORSE RADISH** (German—Meerrettig; French—Raifort)—SEE PAGE 3.



## Rhubarb

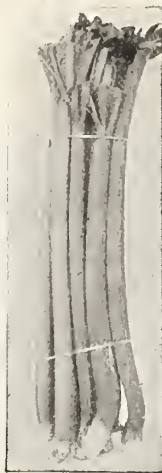
(German—Rhababer. French—Rhubarbe)

**Culture**—Sow seed in a cold-frame, in a fine, rich, sandy loam, about the first of March, in drills four inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six or eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart and twelve inches in the row. The following Spring transplant to a permanent location, setting four or five feet apart each way. In good soil Rhubarb is ready to use the second year from seed.

If our two-year-old roots are used, a crop may be had the same season, which is much better than sowing seed where only a few plants for family use are needed. In the Fall the bed should have a thick dressing of coarse manure, to be spaded under in Spring.

**Queen Victoria**—The leading variety. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c.

**ROOTS—SEE PAGE 3.**



## Salsify, or Oyster Plant



Mammoth Sandwich  
Island Salsify

(German—Haferwurz. French—Selsif)

One ounce to seventy feet of drill; about eight pounds to the acre.

**Culture**—Sow as early as the ground can be worked in the Spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till Spring, when it will be found fresh and plump. The roots are cut into pieces one-half inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet and agreeable flavor like that of the oyster.

**Mammoth Sandwich Island**—This is an improved type and the largest and most profitable salsify now in cultivation. It is white in color, and a satisfactory sort in every way; invaluable to market gardeners and truckers.

Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

## M. & S. Swiss Chard, Delmonico

This is the finest Swiss chard that grows, making large handsome, finely crimped light green leaves, which are tender and have a delicious flavor, the ribs are edible and not unlike asparagus. Absolutely the best for home gardens. Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

**Swiss Chard, or Spinach Beet, Giant Lucullus**—The leaves of Swiss Chard are used as greens, cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c; 1 lb. 80c.



M. & S. Swiss Chard, Delmonico

## Tobacco Seed

Connecticut and Pennsylvania Seed Leaf—Pkts. 5c and 10c; oz. 25c.

Havana Seed Leaf—Pkts. 5c and 10c; oz. 35c.

Maryland Tobacco—Pkts. 5c and 10c; oz. 25c.

## Sorrel, or Sourgrass

(German—Sauerampfer. French—Oseille)

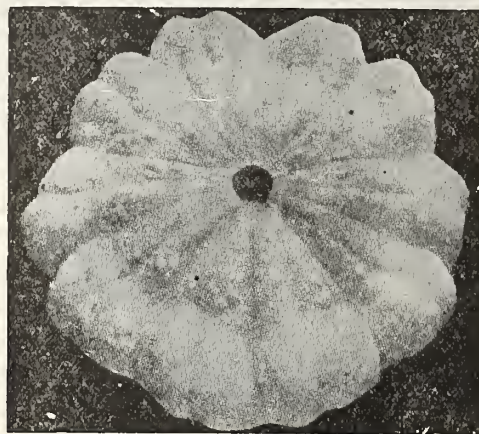
**Culture**—Sow in Spring in drills 18 inches apart, in a rich soil and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

Large French—Pkt. 5c; oz. 25c; ¼ lb. 75c.

## Squash

(German—Gemuse Kurbis. French—Courge)

Bush sorts, one ounce for fifty hills; five to six pounds to acre; running varieties three to four pounds in hills for an acre.



M. & S. Perfection Bush Squash

**Culture**—Squashes should be planted in a warm, light, rich soil after the weather has become settled and warm, about the middle of May or June. Plant in well-manured hills, in the same manner as Cucumbers and Melons—the Bush Varieties three to four feet apart each way, and the running kinds from six to eight feet. Eight to ten seeds should be sown in each hill, thinning out after they have attained their rough leaves and danger from

bugs is over, leaving three to four of the strongest plants per hill.

**M. & S. PERFECTION BUSH SQUASH**—This is the finest scalloped white squash that grows, obtaining large size but stays tender as butter for a long time. The best for home gardens and market gardeners. Pkt. 5c and 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.

**Early Mammoth White Bush Squash**—An excellent strain. Early prolific and much larger than the old White Bush. Splendid for market, best for shippers. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 75c.

**Summer Crookneck, Bush Variety**—About one foot long, with crooked neck, bright yellow, warty, shell hard when ripe. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Hubbard**—An excellent keeper and of splendid quality. Vines of strong running growth. Large olive-shaped fruits with dark green skin and very rich flesh. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Golden Hubbard**—Like the above, but of a beautiful orange-red color, except for a bit of olive-green on blossom end. Flesh deep orange, dry, fine grained and richly flavored. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Boston Marrow**—This is a large-fruited, hard-shell sort, highly esteemed for Winter use, having bright orange skin and deep orange flesh. Very fine and extensively used for pumpkin pies. Fine strong running growth. Very productive, oval shape. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.



Boston Marrow Squash

Gentlemen—The Sweet William Seed which I purchased from you last year turned out to be the most beautiful I have ever seen. One bush seemed to be an exception. I can recommend them highly to any of your customers.

A. L. LEPPER, Raspeburg, Md.



## Turnip

(German—Rube. French—Navet)

One ounce for 100 feet; two pounds to the acre.

**Culture**—For early use sow as soon as the ground opens in Spring, drills from 12 to 15 inches apart; thin out to six or nine inches in the rows. For a succession, continue to sow in July and August. The Ruta Bagas are grown for feeding stock, and are also excellent for the table. Take up the roots in November or before severe frosts; cut off the tops within an inch of the crown, store in a cool cellar or pit, or pile up in a conical form, out of doors, in dry ground; cover carefully with long straw and finish by earthing up, covering them with about 12 or 15 inches of earth, leaving a trench around the heap to carry off the water. Put away in this manner they will be found in good condition in the Spring.

M. & S Early Champion Turnip



**M. & S. EARLY CHAMPION TURNIP**—This is the best Turnip for home gardens and market gardeners to plant. It is large perfect globe shape, white as snow with a beautiful distinct red shoulder (tops are not over large), stays tender and sweet a long time. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c.

**Red, or Purple Top White Globe**—A variety of decided merit, and the most popular in our markets. Globular-shape, very handsome and of superior quality. Is a heavy producer, early, and of rapid growth, and an excellent keeper. Besides being a first-class table turnip, it is also very good for stock. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Extra Early Purple Top Strap Leaved**—The earliest in cultivation and a splendid turnip. Is very flat, medium size, smooth, with bright-purple top. Leaves are few and short and grow compactly, making very small top. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

Improved  
Purple Top  
Ruta Baga,  
or Swede  
Turnip



**Purple Top Yellow Aberdeen**—Medium size, round, pale-yellow, tender and sugary. Is hardy and productive and keeps well. Closely approaches Ruta Baga in hardiness and firmness of texture. This is an old esteemed variety for stock. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Teltower Turnip**—A small yellow turnip, of excellent flavor, a great favorite in Europe. Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c.

**White Egg**—A quick-growing, egg-shaped variety. Very smooth, pure white, grow half out of ground. Has a small top and rough leaves. Flesh is of excellent quality. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Yellow, or Amber Globe**—Excellent for table use or stock. Fine quality, keeps well. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Pomeranian White Globe**—Free growing and rough-leaved. Pure white. Useful for table and stock. Large and productive. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Cow Horn**—A long, white, carrot-shaped turnip, which grows half out of the ground. Mostly used for feeding stock, but makes a fine table sort. Has lately been brought to prominence for green manuring in connection with rape. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c.

**Seven Top**—Grown exclusively for its tops, and when properly prepared and cooked, make a fine dish. Withstands our winter without any protection. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 75c.

**Tennoji Turnip**—A Japanese variety of exceptional merit. Flat, snow white and of immense size, but very fine flavor. Seed very scarce. Pkt. 10c; oz. 25c.

**Improved Purple Top Ruta Baga, or Swede**—The leading variety of Ruta Baga and is grown principally for stock, although it is very often used for table. Hardy, productive, flesh yellow, solid, sweet, fine grained and of good flavor. Ruta Bagas should be sown about one month earlier than other turnips. Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 75c.

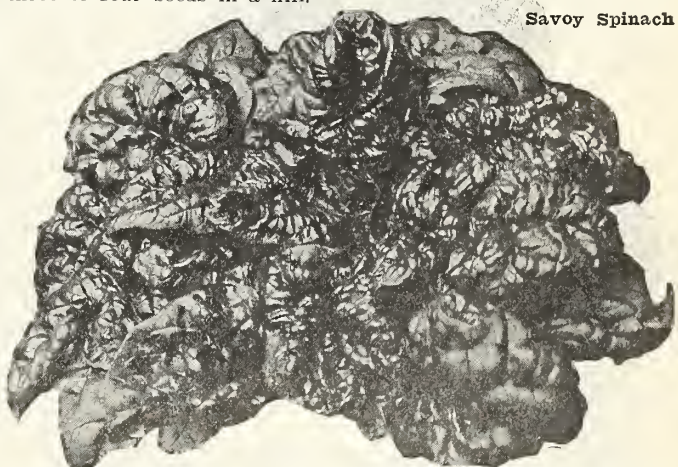
## Spinach

(German—Spinat. French—Epinard)

One ounce will sow fifty feet of drill; fifteen to twenty pounds to an acre.

**Culture**—Sow in early Spring, in drills a foot apart, every two weeks for a succession, and as it grows, thin out for use. For Fall use, sow in August, and for Winter crop in September. Cover that which is left out over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills two feet apart each way, three or four seeds in a hill.

Savoy Spinach



**Bloomsdale Savoy Leaved**—The popular Fall Spinach so largely grown for market. Grows upright, the leaves being crumpled, dark green and very thick. Pkt. 5c; oz. 10c; ¼ lb. 15c; 1 lb. 40c; 5 lbs. \$1.25.

Prices on larger quantities furnished on application.

**Victoria**—A favorite for early Summer. It is one of the darkest in color, and with exception of the heart, the leaves are comparatively smooth. Pkt. 5c; oz. 10c; ¼ lb. 15c; 1 lb. 40c; 5 lbs. \$1.25.

**Long Season**—Leaves are decidedly dark green in color, very broad, thick and fleshy. It resists the Summer heat remarkably well, in fact, better than all others, and remains a long time in condition for use before going to seed. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 40c; 5 lbs. \$1.25.

**New Zealand**—Distinct from the ordinary Spinach in appearance. The plants are more spreading in growth with small, very dark green leaves, which may be had throughout the hot Summer months. Sow seed outdoors during May, dropping about three seeds in hills two feet apart each way. Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c.

## Vegetable Marrow

**Italian (Cocozelle di Napoli)**—Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, marbled yellow or pale green. In Italy it is eaten when quite young. Pkt. 5c and 10c; oz. 15c; ¼ lb. 50c.

Dear Sirs—I am writing to let you know that the twenty-five I am very much pleased with them.

R. I. Red pullets arrived O. K., and they are a fine looking lot. FREDERICK AROLD, Mgr. for S. Proctor Brady, Lutherville, Md.



# M. & S. "SURE CROPPING" TOMATOES

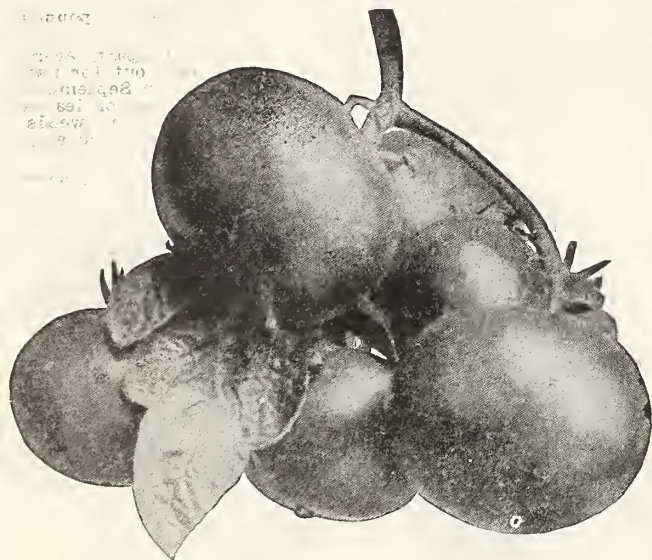
(German—Liebesapfel. French—Tomate)

## Early Varieties

**M. & S. Early Wonder**—This is the first year that we are offering this wonderful extra early Tomato, after several years of careful selection. The fruits are large for so early a variety, round or slightly flattened, deep scarlet red color, smooth, free from cracks and of fine quality. It produces ripe fruit as early as Earliana and continues to yield marketable fruit a longer period than the other first early varieties. The vines are vigorous and very productive. We consider this a valuable addition to the list of early tomatoes for the market or home garden. Pkt. 25c; oz. \$1.25; 2 oz. \$2.15; ¼ lb. \$4.00; lb. \$15.00.

One ounce for 1,500 plants; quarter pound (to transplant) an acre.

**Culture**—This delicious vegetable is one of the most important of all garden products. The seed should be sown in a hotbed about the first week in March, or latter part of February, in drills five inches apart, and half an inch deep. When the plants are about two inches high they should be set into small pots, allowing a single plant to a pot. About the first of May the plants may be set out in the open ground in hills three feet or four feet apart, each way. (Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower pot, and placing it in a sunny window of the room or kitchen.) Cultivate thoroughly as long as the vines will permit, but the last two or three workings of the soil should be very shallow (surface cultivation), or the crop may be badly injured, especially if the cultivator is run too near the young plants.



Bonnie Best Tomato

**Extra Early I. K. L.**—Combines extreme earliness, immense size and prolificness. Fruit red, ripening mostly all at one time. Pkt. 5c and 10c; oz. 20c; ¼ lb. 75c; lb. \$2.50.

**Sparks Earliana**—Particularly desirable for shipping and for earliest market. The fruits are smooth, round, of red color, making desirable and salable fruits. Pkt. 5c and 10c; oz. 20c; ¼ lb. 75c; lb. \$2.50.

**Chalk's Early Jewel**—The finest of the very early tomatoes. About a week later than the Earliana, but far superior in quality. Fine red color, fine quality, hardy and productive. Excellent flavor. A most profitable variety for early and main crop. Pkt. 5c and 10c; oz. 20c; ¼ lb. 75c; 1 lb. \$2.50.

**Extra Early Mascot**—Great favorite among the Anne Arundel County truckers on account of its earliness, productiveness, and uniformity of good size; smooth, red-skinned tomatoes. Pkt. 5c and 10c; oz. 25c; ¼ lb. 90c; 1 lb. \$3.00.

**King of the Earliest**—One of the largest Early Red Tomatoes, which well deserves its name. Pkt. 5c and 10c; oz. 25c; ¼ lb. 90c; lb. \$3.00.

**Bonnie Best**—A tomato of fine quality. Early, round, smooth, red fruit of excellent flavor. Pkt. 5c and 10c; oz. 20c; ¼ lb. 75c; lb. \$2.50.

Dear Sirs—My first order has been received. The plants, trees and rose bushes are all living beautifully. The magnolia trees are blooming.

MRS. ELMER O. TOWNSEND, Marion, Md.



M. &amp; S. Early Wonder Tomato

**John Baer**—This tomato compares with Bonnie Best, but grows much heavier foliage and larger fruit; is also more productive. While not as early as the Earliest, it will pick some fruit quite early; the bulk of the crop coming five to seven days later. It is a good, all around tomato, the fruit being smooth, ripening clear to the stem and of a good rich red color. Pkt. 5c and 10c; oz. 20c; ¼ lb. 90c; lb. \$3.00.

**June Pink**—For gardeners who have a market for a nearly purplish pink fruit (which is produced in clusters). This is the variety to plant. True strain seed. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

**Sunnybrook Special**—A great favorite with the Anne Arundel County truckers on account of its earliness, productiveness and uniformity. Pkt. 5c and 10c; oz. 25c; ¼ lb. 90c; lb. \$3.00.

## M. & S. Incomparable Tomato

We pronounce this the best medium early Tomato that grows. It produces large smooth fruit, which are very thick from stem to blossom end, very solid and of a deep red color. It yields immensely and clean up to frost, we have counted fifteen marketable fruit on a single crown setting. We do not mean to say that half the patch will do this, but we can honestly say that we saw a great many plants with seven, eight and nine fruits on a crown setting. The vines are stout and dark green, holding the fruit well off the ground.

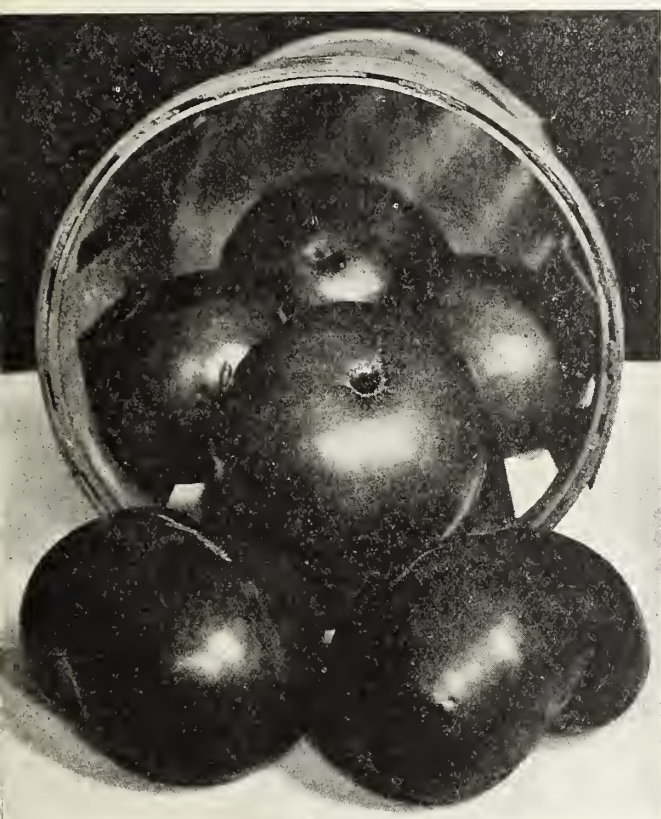
Seed scarce, order early, grown exclusively by us. Packet 10c and 25c; ounce 50c; ¼ pound \$1.75; 1 pound \$6.00.



M. &amp; S. Incomparable Tomato



# M. & S. MAIN CROP AND SMALL FRUITED TOMATOES



M. & S. Big Chief Tomato

**M. & S. BIG CHIEF**—A grand new main-crop tomato of the very highest quality. It produces an abundance of large handsome red fruit, which ripens clean to the stem and will bear heavily from early part of July until frost. It is a very shy seeder. The meat is deliciously juicy and free from acid. It is rare to see an ill-shaped fruit on a **M.-S. BIG CHIEF VINE**. We have tested this valuable new variety very carefully and have always been more than satisfied with the results. Order quick, as the seed is scarce, grown exclusively by us. Pkt. 25c; oz. 50c; ¼ lb. \$1.75; 1 lb. \$6.00.

**Kelly's Red**—This variety has obtained immense popularity in the last few years. It was originated in Anne Arundel County. Its solidity and carrying qualities are remarkable. Its color is a desirable red. Its shape perfectly smooth and thicker from stem to blossom than most varieties, making it very handsome and salable. Nobody finds any fault with this variety, but all speak in the highest terms of its beautiful color, its wonderful yielding qualities, its unequaled firmness, or some other of its good points. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

**Greater Baltimore**—General crop tomato of sterling merits; large, smooth, beautiful red skin fruits, which are produced in great abundance until frost kills the vine. Pkt. 5c and 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

**B. B. (Brinton's Best)**—A very fine late crop tomato, which is similar to the New Stone. Keeps well after being picked. A vigorous grower and quite popular. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

**Wisdom**—This tomato of recent introduction has become very popular. It is a great yielder of large handsome red fruit, which ripens clean to the stem. It makes very strong vines and should be given plenty of room: Pkt. 15c; oz. 40c; ¼ lb. \$1.50; 1 lb. \$5.00.

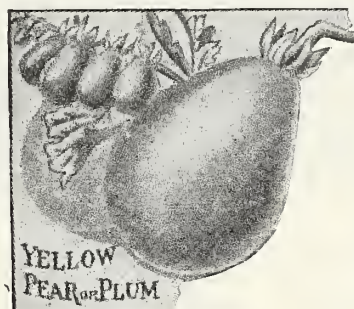
**Ponderosa**—Remarkably large and of fine quality. Very solid. Pkt. 10c; oz. 35c; ¼ lb. \$1.25.

**M. & S. IMPROVED NEW STONE**—This variety is one of the very best tomatoes grown. For productiveness, shipping and canning qualities it is excelled by none. Bright scarlet, fine flavor, very smooth and round. We recommend it as a thoroughly reliable main crop tomato. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

**Livingstone's Globe**—Glossy rose-color, tinged with purple, very early, smooth and of large size; very productive and a good keeper. A standard variety which retains its popularity; very popular with truckers. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

**New Queen**—Large, solid, smooth, handsome, deep red color, a heavy cropper and popular with canners. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.

**Maryland Pride**—A tomato for main crop. Producing enormous quantities of fine, large, red tomatoes, which carry well, making it a good shipper. Pkt. 5c and 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$2.00.



**Golden Queen**—Bright yellow, large and solid. Pkt. 5c and 10c; oz. 35c; ¼ lb. \$1.25.

**Yellow Pear and Yellow Plum**—Two small-fruited kinds for preserves. Pkt. 5c and 10c; oz. 35c; ¼ lb. \$1.25.

**Red Pear**—Pear-shaped red. Pkt. 5c and 10c; oz. 40c.

**Peach**—Very small, pink fruit, with slight peach bloom on skin. Pkt. 5c and 10c; oz. 40c.

## Clover Seeds

Write for Samples and Prices in Larger Quantities  
Prices Subject to Market Fluctuation.

**Alfalfa, or Lucerne (Medicago sativa)**—Requires deep, rich, well-drained soil. Roots very deeply, the tap-root descending often to a depth of 10 or 15 feet in loose soil. It is, consequently, capable of resisting great droughts. It should be sown alone (about the same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It is also successfully sown as late as August and up to the middle of September. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. Height, one to three feet. We handle home as well as foreign grown alfalfa. 30c per lb. Large quantity price on application.

**Alsike, or Hybrid Clover (Trifolium hybridum)**—A perennial, one to three feet high; grows well in our locality and can withstand severe cold. A good honey plant for bees. Fifteen lbs. to the acre. Lb. 35c.

**Red Clover (Trifolium pratense)**—One of the most valuable farm crops for pasture, hay, or for turning under for green manure. It requires a deep, rich soil and yields two hay crops in the season. Sow at the rate of 15 pounds to the acre. Lb. 35c.

**Mammoth Red, or Sapling Clover**—Grows larger and lasts longer than the common red clover; valuable for plowing under. Ten pounds to the acre. Lb. 35c.

**Crimson, or German Clover (Trifolium incarnatum)**—Erect annual, one to two feet high, with bright-scarlet flowers. It is largely grown for improving the soil by turning under. It is a valuable crop for pasture or green manure. For hay it should be cut when in full bloom. Sow 20 pounds to the acre. Lb. 25c.

**White Sweet Clover (Melilotus Alba or Bokhara)**—Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil; may be cut three times; lasts for years if cut before flowering. Lb. 20c.

**White Clover (Trifolium repens)**—It makes an excellent turf that stands constant trampling. It is of dwarf habit, spreads rapidly and is very hardy. It is valuable in lawns and permanent pastures, being sweet and nutritious. Sow in Spring. In mixtures, one or two pounds; if alone eight or ten pounds to the acre. ¼ lb. 25c; ½ lb. 40c; 1 lb. 75c.



**Farmogerm Nitrogen-Fixing Bacteria for All Kinds of Clover**—Means bigger crops, healthier growth, early and more continuous crops. Garden size, 50c; \$1.00 per acre bottle; 2 acres, \$2.50; 12 acres, \$9.00. It will pay you to use this when you plant peas and beans. (See index.)



## M. & S. RELIABLE GRASS SEEDS

**Blue Grass, Fancy Kentucky**—(Poa Pratensis)—Our stock of this is extra fine, thoroughly re-cleaned; sow 3 to 5 bushels per acre on lawn, 2½ to 3 bushels on pasture fields (bu. 14 lbs.). **Per lb. 40c.** Larger quantity on application.

**Bermuda Grass**—Adapted for seashores, very hardy. **50c lb.**

**Creeping Bent** (Agrostis Stolonifera)—Adapted admirably for lawns, also putting greens, tennis courts, etc.; sow 4 bu. per acre (20 lbs. per bu.). **Price on application.**

**Crested Dogstail** (Cynosurus Cristatus). Excellent as a pasture and lawn grass. Sow 3½ to 4 bu. per acre (21 lbs. per bu.). **Prices on application.**

**English, or Perennial Rye Grass** (Lolium Perenne). (Pacey's Fancy Short Seeded.) This makes the quickest returns in growth of any grass; is deep rooted and is readily established. Sow bu. per acre (20 lbs. per bu.), **25c per lb.**



Timothy.

**Hard Fescue** (Festuca Duriuscula)—A splendid grass for golf links, tennis courts, etc.; will resist droughts. Sow 3 bu. per acre (12 lbs. per bu.). **Price on application.**

**Herd, or Red Top Fancy Re-cleaned**—This is one of the best grasses for sowing for immediate effect. Our stock is free from chaff and is absolutely pure. Sow 40 lbs. per acre (32 lbs. per bu.). **Price, 40c per lb.**

**Herd, or Red Top Unhulled** (Agrostis Vulgaris). Sow 4 to 5 bu. per acre on lawns or 3 bu. on pasture lands (10 lbs. per bu.). **Price on application.**

**Meadow Fescue** (Festuca Pratensis)—Sow 40 to 50 lbs. per acre (22 lbs. per bu.). **Price on application.**

**Italian Rye** (Lolium Italicum)—Very desirable for pasture; being an annual, it comes to maturity the first season; the ideal lawn seed for Southern lawns in winter. Sow 50 lbs. per acre (18 lbs. per bu.). **25c per lb.**



Orchard Grass

**Orchard Grass** (Dactylis Glomerata)—For early pasturing this is very desirable; also fine for sowing in shaded places. Sow 40 lbs. per acre (14 lbs. to bu.). **Price, 35c per lb.**

**Red, or Creeping Fescue** (Festuca Rubra)—Very valuable for sowing on sandy soil and in shaded places and putting greens. (14 lbs. per bu.). **Price on application.**

**Rhode Island Bent**—For sowing at seashore resorts, on putting greens, tennis courts, etc.; 40 lbs. per acre (14 lbs. per bu.). **Price on application.**



M. & S. Permanent Pasture Mixture makes a nutritious food for cattle.

**Sheep's Fescue** (Festuca Ovina)—This makes an excellent grass for sowing on lawns, fields, or pleasure grounds. Sow 40 lbs. per acre (12 lbs. per bu.). **Price on application.**

**Sudan Grass Seed** (Annual)—This belongs to the forage crops and is allied to the millets. Sow 16 to 24 lbs. per acre. **20c per lb.**

**Tall Meadow** (Avena Elatior)—A valuable lawn and pasture grass. Extremely valuable for use in the South. Sow 5 bu. per acre (10 lbs. per bu.). **Price on application.**

**Timothy** (Phleum Pratense)—Sow one-half bu. per acre alone (45 lbs. per bu.). **15c per lb.** **Price varies constantly; ask for quotations.**

**Wood Meadow** (Poa Nemoralis)—The best grass for sowing under trees where a lawn is desired. Sow 30 lbs. per acre (14 lbs. per bu.). **Price on application.**

If grasses are wanted by Parcel Post, allow for postage.

Prices on Grasses subject to Market Changes.

Write for Special Prices in Quantities.

## M. & S. SELECTED FORAGE AND FARM SEEDS

Write for Samples and Prices in  
Larger Quantities.

**Broom Corn** (Sorghum vulgare)—Succeeds in a good, deep soil, fresh but not damp, very sensitive to cold. Long-brush Evergreen, which is made into Brooms. (Bu. 50 lbs.). **15c lb.**

**Kafir Corn**—Of great drought-resisting quality. Can be sown as late as July; 10 lbs. to the acre in drills (bu. 56 lbs.). **10c lb.**

**CARROT SEEDS—SEE OFFER ON PAGE 9.**

**CATTLE BEETS** (Mangel-Wurzel)—**SEE OFFER ON PAGE 7.**

**Cow Peas** (Vigna Catjang)—Valuable in this latitude as a fodder plant; their chief value, however, is as a green crop to plow under. The seed should not be sown till the ground has become warm. Sow 2 bu. per acre broadcast; 1 bu. in drills. We offer Black Whippoorwill, Gray, New Era, Black Eye and other leading varieties, also mixed. **Price on application.**

**Golden Millet** (Panicum Miliaceum var)—An improved variety, medium early, growing 3 to 5 feet high. Heads are closely condensed, though the spikes are very numerous. Sow 40 to 50 lbs. broadcast to the acre (bu. 50 lbs.).

**Japanese Buckwheat**—In the locality of Baltimore this is sown anywhere from June 1st to July 15th; one bushel of 48 lbs. broadcasted to the acre. It can be sown as early as May 1st. This variety produces brown seed, is very prolific and matures early. It makes a very fine quality of flour; also used for poultry food. For planting adjacent to game preserves it provides excellent food for the birds. Any of the clover crops can be sown with buckwheat; these to mature the following season. Buckwheat frequently yields as much as 80 bushels to the acre. **15c per qt.; pk. \$1.00.**

**Mammoth Yellow, Brown and Black, Pekin, Sable and Wilson Blacks, Soja Bean** (Glycine hispida)—All thrive well in our climate. Valuable for the South. Does not make good hay, but is good for ensilage or green fodder. Sow 1½ bu. per acre alone, or ½ bu. soja beans with 1 bu. cow peas. Yields as high as 20 tons of green food per acre. **Market prices.**



Soja Beans





Cow Peas

**M. & S. SELECTED FORAGE AND FARM SEEDS (Continued)**

**Peas** (Canadian Field) — Valuable for cattle feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the spring and harrowed in. If sown with oats, about 1½ bushels to the acre; in drills, two bushels to the acre (bu. 60 lbs.). **Market prices.**

**Rape — Dwarf Essex English** (Brassica napus) — Is excellent for sheep and hog pasture, and chicken yards, also for soil-ing. It may be sown in May, and will be ready for pasturing in July and August. Or it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow five lbs. to the acre; sown broadcast, ten pounds to the acre. **Lb. 20c.**

## Sorghum, or Sugar Cane

Ideal cattle food. Sow 1 or 2 bu. broadcast; 25 lbs. to the acre in drills. (Bu. 50 lbs.)

**Early Amber**—Grows 10 to 13 feet high. Fine for cows, either green or cured. **Lb. 10c.**

**Early Orange**—Ripens about 10 days after Early Amber, and is said to produce a larger crop. **Lb. 10c.**

**Sunflower—Large Russian**—**Lb. 15c.**

**Sand, Winter, or Hairy Vetch** (Vicia villosa)—Thrives on poor, arid, sandy soils. It may be sown either in Fall or in spring, mixed with rye, for a support. Grows three to four feet high and can be cut as soon as the bloom appears, and again for seed. Perfectly hardy. Sow 50 pounds to the acre. Price variable. **Lb. 25c.**

**Spring Vetch**—Same as above, but not hardy; sow in Spring only. **Lb. 15c.**

## Winter Barley

48 lbs. per bu. 96 to 110 lbs. per acre.

One of the most productive Fall seeded grain crops grown. Being planted more extensively each year. Provides an abundance of highly nutritious forage, hogs, sheep, cattle, etc., being especially fond of it. Grown in this section largely for grain. Yields 25 to 50 bushels per acre. Invariably brings good market price. Sow 1 to 1½ bushels per acre broadcast.

**Prices on Application.**

## Oats

Appler, Virginia Gray and other best varieties for Fall and spring sowing. 32 lbs. per bu. Sow 64 to 90 lbs. per acre.

**Prices on Application.**



Rye

## Seed Rye

The most popular Fall seeded forage and fertilizing crop grown. Furnishes excellent green food for poultry, hogs and live stock of all kinds. Keeps stock healthy and saves expensive commercial dry feeds. Hogs on rye pasture will make the same gains with half the amount of grain feed. Sow 1 to 1½ bu. per acre broadcast.

Rosen and other varieties. Sow 1½ bu. to the acre from July to November. 56 lbs. per bu. Sow 85 to 100 lbs. per acre. **Prices on Application.**

## Seed Wheat

Bearded and Beardless varieties. 60 lbs. per bu. Sow 90 to 100 lbs. per acre.

**Prices on Application.**

## Field Corn

8 quarts to the acre.

**Prices Subject to Change Without Notice.**

**Collier's Success**—The ears are of immense size, 12 to 14 inches long, 8 to 10 inches in circumference, carrying 20 to 24 uniform rows of large yellow kernels, well developed over tip and butt. It is a luxuriant grower, about 12 to 15 feet high. Matures in 100 days. Makes a splendid ensilage corn, making two ears on many stalks. **Qt. 25c; ¼ pk. 40c; bu. \$2.50.** Price for larger quantity on application.

**Yellow Leaming**—We have a very choice strain of this early, drought-resisting variety. It makes a fair-size ear, with deep, well-shaped grains, and will mature in 90 days. **Qt. 25c; ¼ pk. 40c; bu. \$2.50.** Price for larger quantity on application.

**Golden Beauty**—Large, broad-grained, yellow corn. Ears are well filled out. A heavy yielder. **Qt. 25c; ¼ pk. 40c; bu. \$2.50.** Price for larger quantity on application.

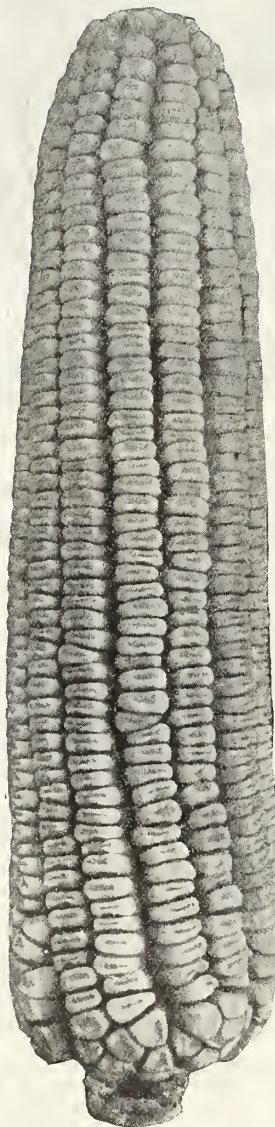
**Maryland Yellow Dent**—Large ear; moderate size stalk; withstands drought well. **Qt. 25c; ¼ pk. 40c; bu. \$2.50.** Price for larger quantity on application.

**Hickory King**—A very broad-grained white corn that does well on light ground. A good corn for the South. Very small cob. Generally two ears to the stalk and occasionally three. **Qt. 25c; ¼ pk. 40c; bu. \$3.00.** Price for larger quantities on application.

**Boone County White**—Recommended by the Agricultural Experimental Stations. A fine, large deep-grained variety, originated by one of the best corn breeders. **Qt. 25c; ¼ pk. 40c; bu. \$2.50.** Price for larger quantity on application.

**Collier's Excelsior**—White corn, especially adapted for hominy corn on account of its flintiness. Great producer on poor soil. **Qt. 25c; ¼ pk. 40c; bu. \$2.50.**

**M. & S. White Ensilage Corn**—Very prolific, tall grower. **Qt. 25c; ¼ pk. 40c; bu. \$2.75.**



Boone County White Corn

Mr. Herman Gunther, of Solley, A. A. Co., Md., states that from 2 bus. of Thomas Laxton Peas which he purchased from us he picked 100 bus. of sweet as sugar peas and received \$2.75 per bu. for the crop.

Mr. J. W. Disney, of Hanover, Md., claims that the Commission men to whom he hauled his Alaska Peas last spring said they were the best that had been hauled to the wholesale market.





M. & S. ROLAND PARK GRASS SEED Use 1 lb. to 200 square ft. of ground from 50 to 60 lb. to the acre.

## Great Many of the Finest Lawns Around Baltimore Are Seeded With M. & S. Well-Known LAWN SEEDS

One of the most essential parts of the country place and suburban home is a carefully made and well-kept lawn. No trouble should be spared in its making, as much of the future results depend upon the start or foundation of the lawn, which, if correctly made, can easily be kept in perfect condition for years, and give pleasure not only to the owner, but to others who see it. In seeding for lawn-making, care should be taken that a well-balanced mixture of grasses is used, one composed of such varieties as will blend together well and also ripen successively, thus securing a healthy and beautiful color throughout the summer. Our M. & S. Roland Park Lawn Grass Seed produce beautiful and permanent lawns. It is made from our own formula, and composed of grasses which are adapted for the purpose of producing turf which retains its rich green color and velvet appearance throughout the entire summer and fall. In making up this brand we are careful to use seed that has been thoroughly cleaned, the light seed and chaff having been blown out.

**M. & S. ROLAND PARK LAWN GRASS**—1 lb. 40c; 3 lb. \$1.15; 5 lb. \$1.85; 10 lb. \$3.50; bu. of 30 lb. \$9.00.

**M. & S. SHADY NOOK GRASS**—It is quite difficult to obtain a satisfactory growth of grass under trees and in shady places. For sowing in such places we recommend the use of this special mixture. It will quickly produce an abundant and even growth of beautiful green grass. The grasses used in making this special mixture are only those that are well adapted for growing in shade. It has been successfully used on some large operations where a green sward was desired on land partially shaded by old trees. 1 lb. 40c; 3 lb. \$1.15; 5 lb. \$1.85; 10 lb. \$3.50; bu. of 30 lb. \$9.00.

**M. & S. PLEASURE GROUND MIXTURE**—For fair greens, etc. The turf required for pleasure grounds must be of a character to withstand rough usage. This special mixture is made from our own formula, and will produce a permanent turf that will stand the hardest wear. For tennis courts, cricket tables, golf links, polo grounds, or wherever a good sward is wanted, this seed will give perfect satisfaction. We believe that the golf links should be as fine as a velvety lawn, hence the need of a fine mixture. 1 lb. 40c; 3 lb. \$1.15; 5 lb. \$1.85; 10 lb. \$3.50; bu. of 30 lb. \$9.00.

White Clover— $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 40c; 1 lb. 75c.

**M. & S. Permanent Pasture Mixture**, either for Low or Up Lands. It is made up of the grasses best calculated to afford an abundant and nutritious food supply for stock. The formulas are based upon successful experience. For all ordinary permanent pasture, they will be found entirely satisfactory. 1 lb. 35c; bu. of 20 lbs. \$6.00.

**High Grade Shredded Cattle and Sheep Manure**—Should be used liberally on all lawns. The manure we offer will not produce any weeds. We can furnish you a whole wagon load in a 100 lb. bag. (For prices see index.)



**High Grade Shredded Cattle and Sheep Manure**—Should be used liberally on all lawns. The manure we offer will not produce any weeds. We can furnish you a whole wagon load in a 100 lb. bag. (For prices see index.)

### CRAB GRASS OR DIGITARIA HUMIFUSSA ON LAWNS

If, in the course of events, the fine green lawn on which so many hours of attention has been spent, turns purple in spots so that it seems to have become infested with some dread and obscure disease—blame it on *digitaria humifussa*.

Such a change often comes over the best of lawns between the first of August and the last of September. Robert C. Dahlberg, in charge of the State Seed Laboratory at University Farm, said it may be ascribed to the presence of *digitaria humifussa*, otherwise "small crab grass."

The pest is found throughout the entire East in great quantities, said he. This is the treatment he recommends:

When the grass is heading the lawn should be carefully mowed and all grass collected in a collector attachment. To raise the seedheads above the lawn grass a rake should be used and then another application of lawn mower made.

### BEAUTIFY THE HOME GROUNDS

In considering the purposes of planting in the home grounds, more and more emphasis is being put upon providing a place of reasonable seclusion where the life of the family may be carried on in pleasant weather amid the delightful surroundings afforded by a garden. Such a place becomes, in effect, an outdoor living room. It is a logical answer to the demands of our summer weather; it carries further the idea which has popularized porch life and puts to valuable use costly space which is frequently wasted.

Why should the owner of a 50-foot lot, 100 feet deep, be satisfied to confine his real use of that area to the space covered by his house, perhaps 25 by 40? If \$1,500 be taken as the average ground value of the small home grounds, \$300 worth is all that is thus used. The rest is commonly devoted to purely ornamental front lawn, and frequently unsightly back yard used, if at all, for hanging up clothes. For an expenditure of little more than the cost of a single piece of furniture in the living room, an outdoor apartment may be built, with grass for carpet, shrubbery for walls, and flowers for decorations, which may well be the most frequented part of the home during six months of the year.

**WE SUPPLY SHRUBBERY AND TREES FOR THESE DECORATIONS.**



## M. & S. FLOWER SEED DEPARTMENT

Our flower seeds have a reputation for their superior quality and for the excellent results obtained by sowing them. It is our constant endeavor to supply only such varieties and strains that will give the best of satisfaction.

Throughout the following pages of Flower Seeds the different varieties are designated as Annuals, Biennials, Perennials, etc., and for the benefit of those who are not familiar with these terms, we wish to

make the following explanation:

**Annuals.** These grow and bloom, mature their seed, and then die in the same year, such as Asters, Balsams, Poppies, Sweet Peas, Morning Glories, etc., some of which may be sown in the house from March to May, or outdoors after danger from frost is over.

**Biennials.** These grow from seed sown during mid-summer, flowering the second year, after which they die; many of the varieties bloom the first season if sown early. In this class we have Pansies, English Daisies, Campanula Medium, Dianthus, etc.

**Perennials.** Those which live from year to year, such as Aquilegia, Delphinium, Foxglove, etc. Seed may be sown outdoors from June to September and transplanted late in fall into their permanent quarters, and protected during winter with a light litter of straw or leaves. The hardy perennials not usually needing any protection after the first winter; the half-hardy perennials require protection during the winter, and the tender perennials during the winter require greenhouse protection.

**All Flower Seeds are 5c Package unless otherwise noted. All annuals are marked (a); Biennials (b); Perennials (p).**

**Adonis (a) (Bird's Eye)**—One of the choicest Spring flowering plants. Crimson.

**Ageratum (a) (Floss Flower)**—An excellent plant for edging or solid effects. A continuous bloomer. Imperial Dwarf Blue, Imperial Dwarf White or mixed.

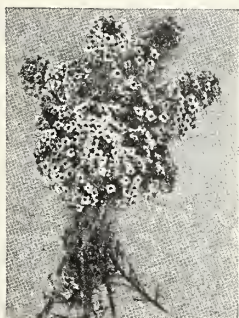
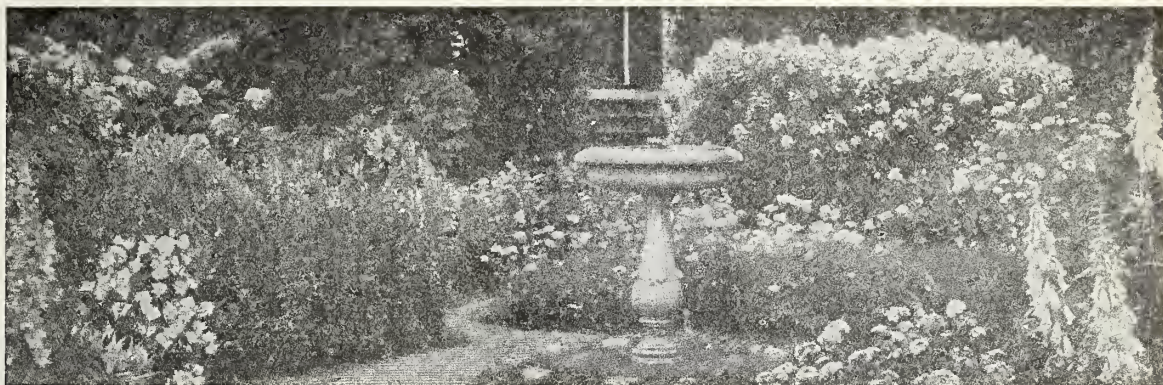
**Alyssum (a) (Carpet of Snow)**—One of the most popular garden flowers; in bloom all season. Used for edging or in rockeries or vases.

**Amaranthus (a)**—Decorative Foliage plants. Caudatus (Love Lies Bleeding) drooping crimson racemes. Tricolor Splendens (Joseph's Coat), leaves red, yellow and green.

**Antirrhinum (p) (Snapdragon)**—A splendid plant for beds or borders and one of our choicest cut flowers. To have flowers early, sow indoors during February and March. Yellow, Striped, M-S, Giant Pink, Scarlet, and all colors mixed.

### M. & S. SUPERB ASTERS

To our minds there is no other flower which combines so much beauty with grace and usefulness. In bloom from July till frost. To have early flowers sow indoors from March till May, otherwise sow outdoors. Asters require well-pulverized soil.



Alyssum



Antirrhinum or Snapdragon

**M. & S. AMERICAN BEAUTY ASTER**—The Queen of All Asters. Very new, far superior to Paeony and Branching varieties. In 5 colors. Carmine, Rose, Purple, Lavender, September Beauty (Shell Pink and Rose), and all colors mixed. Pkt. 10c, 25c and 50c; oz. \$2.50.

**Aster Paeonie**—Flowering: White, rose, scarlet, lavender, dark blue and choice mixed. 10c pkt.; 3 for 25c; oz. \$2.00.

**Aster (Ostrich Plumed)**—Very beautiful: White, rose, scarlet, lavender, dark blue and choice mixed. 10c pkt.; 3 for 25c; oz. \$2.00.

**Asters, Semple's Branching**—In five distinct colors. White, pink, dark red, light blue, dark blue and all colors mixed. 10c pkt.; 3 for 25c; oz. \$1.75.

**Aster, Queen of the Market**—Very early: White, pink, lavender, scarlet, dark blue and choice mixed. 10c pkt.; 3 for 25c; oz. \$1.50.



American Beauty Aster

**Asters**—China, mixed, double, choice colors.

**Perennial Aster (Michaelmas Daisy)**—10c pkt.

**Balloon Vine (a) (Love in a Puff)**—A rapid growing annual climber. Seed pods look like miniature balloons.

**Balsam (a) (Lady's Slipper)**—An old-fashioned flower. With plenty of room they will develop to immense plants with gorgeous flowers.

**Balsam Apple (a) (Momordica)**—Handsome climbing annual, bearing ornamental orange colored fruit.

**Begonia (a)**—Invaluable for bedding and pot culture; about one foot high, beautiful foliage pink, white and crimson mixed. 10c pkt.

### Gentlemen:

I have used your Lawn Grass Seed, Assorted Flower Seed, Kentucky Wonder Beans and have also a beautiful flowering Excelsior Climbing Rose Bush, all purchased from your house, and it gives me great pleasure to state that everything I have bought from you has given great satisfaction.

J. M. BELL,  
care Maryland Farmer, Baltimore, Md.



**ALL FLOWER SEED PACKAGES ARE 5 CENTS UNLESS OTHERWISE STATED**

**Calendula (a)** (Pot Marigold)—Free flowering, in bloom from early summer till frost. They may also be successfully grown indoors. Lemon, Queen, Meteor, Orange King and mixed. **Oz. 40c; pkt. 5c and 10c.**

**California Poppy**—(See *Eschscholtzia*)

**Calliopsis (a)**—A very showy annual in bloom from early summer till frost. Lemon, yellow with dark brown centers, rich crimson and mixed. **Oz. 40c; pkt. 5c and 10c.**

**Campanula Media (p)** (Canterbury Bell)—These are strictly biennials and require the following cultural directions: Sow from June 1st till September 1st; when strong enough transplant to a distance of six inches apart, after frost has set in protect with leaves and straw. They flower the following June, after which they die. Their colors are so pure that gorgeous effects can be achieved with them. Single blue, pink, white or mixed. **Oz. 75c.**

**Canary Bird Vine (a)**—One of the most charming annual climbers, bearing hundreds of pretty, fringed bright yellow flowers, which resemble a canary bird with expanded wings. **Oz. 35c; pkt. 5c.**

**Candytuft (a)**—Dwarf, profuse flowers, of easy culture; useful for bedding and borders. Pink, rose, white and choice mixed. **Oz. 40c; pkt. 5c.**

**Canna (a)** (Indian Shot)—Although these are generally planted from roots, they may be grown from seeds. **Oz. 30c; pkt. 5c.**

**Canterbury Bell**—(See *Campanula*).



**Centaurea Cyanus**  
Cornflower, or Bachelor's Button)

**Emperor William**, pink, white and mixed. **Pkt. 5c; oz. 40c.**

**Centaurea Imperialis, or Sweet Sultan**—Gigantic, beautiful, sweet-scented flowers, borne on long stems. Mixed. **Pkt. 5c; oz. \$1.00.**

**Centaurea, White Leaved** (Dusty Miller) — Grown for their silver foliage; fine for edging and hanging baskets. **Pkt. 5c; 250 seeds, 25c.**

**Cerastium (a)** (Snow in Summer) — Dwarf, white-leaved edging plant; flowers white. **Pkt. 5c; oz. 40c.**

**Chrysanthemum** — Annual and perennial varieties.

**Cineraria** — One of the most ornamental and useful plants for conservatory and house decorations. Mixture, **60c and \$1.00.**

**Clarkia (a)**—One of the prettiest and showiest hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early Spring and grow in partial shade. They bloom through midsummer to late autumn. Average height, 1½ feet. **Pkt. 5c; large pkt. 20c.**



**Candytuft**

**Carnation (a)** Marguerite—These are the most satisfactory of the annual pinks, and will bloom in four months after sowing the seed. The flowers are large, fragrant and are produced continuously. If slightly protected the first winter they will revive the following spring and bloom during that whole season. **Pkt. 10c; 3 for 25c; oz. \$1.00.**

**Cardinal Climber (a)** (*Ipomoea Quamoclit* Hybrid)—One of the finest annual climbers known today. Very graceful and beautiful, growing rapidly, and in a warm, sunny location with good soil, it reaches often a height of 20 feet; it is densely clothed with palm-like, rich green leaves, bespangled with clusters of fiery scarlet, tubular spear-shaped flowers, measuring about 1¼ inches across.

**Price: Pkt. 25c; 5 pkts. for \$1.**

**Centaurea (a)** (*Centaurea Cyanus*, Cornflower) — Also known as Blue Bottle, Ragged Sailor, Bachelor's Button. An old favorite garden annual.



**Cardinal Climber**

**Castor Bean**—See *Ricinus*.

**Celosia Cristata (a)** (Crested Cockscomb)—Very desirable annuals of easy culture large comb-like heads, excellent border plants, very good for pots. Mixed. **Pkt. 5c; oz. \$1.00.**

**Celosia Plumosa (a)** (Feathered Cockscomb)—Very decorative plant for the garden. The feathery plumes are excellent for cutting. Can also be cut and dried for winter use. Mixed colors. **Pkt. 5c; oz. 60c.**

**Cobaea Scandens (a)** (Cups and Saucers Vine)—Well-known climber of rapid growth, producing large bell-shaped blossoms; in sowing, place the seeds edge-wise, and merely cover with light soil.

**Coreopsis (Lanceolata Grandiflora)**—A hardy perennial bearing a profuse and long-continued succession of large, bold, golden yellow flowers during the whole summer months. Seed sown in March will flower the same season. Height, 2½ feet.

**Coleus (a)**—Large Leaved Hybrids—Popular bedding plant with beautifully colored foliage; easy grown from seed if kept in warm temperature. **Pkt. 10c; 3 for 25c.**

**Convolvulus**—See Japanese Morning Glory.

**Columbine, or Aquilegia (p)**—A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for flowering the following season. They thrive well under ordinary garden culture. Few hardy perennials are so easily grown from seed, and will give such unalloyed satisfaction. Single or double mixed, white, yellow, blue, rose. **Pkt. 5c; oz. 75c.**



**Columbine**

**Corn, Rainbow**—Stalks grow 5 feet tall, leaves very ornamental. Excellent for decorating.

**Cosmos (a)** — An autumn flowering plant. A charming, profuse bloomer. Crimson, pink, white and all colors mixed. **Pkt. 5c; oz. 50c.**

**Cosmos Klondyke**—Same as above, but a clear orange yellow. **Pkt. 10c; oz. \$1.00.**

**Early Summer-flowering Cosmos**—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth; 4 feet. Flower beautiful and large; petals broad; crimson, pink, white and all colors mixed; profuse bloomer. **Pkt. 5c; oz. 50c.**

**Double-crested Cosmos (a)**—We take great pride in offering this novelty to our customers. This is an entirely new class of cosmos, producing double-crested flowers of exceptional beauty. The grower does not claim that all plants have double flowers, but the fields show about 50 per cent.; but the ones that do not show double are dreams of beauty. Pink and white. Seed scarce. **Pkt. 25c; 5 pkts. \$1.00.**



**Cosmos**

**Shasta Daisy**—Very large; white single flowers on long stems. **Pkt. 10c and 15c.**

**Dianthus (p)**, China Pink—One of the most popular flowers in cultivation; blooms profusely. Great variety of colors. Extra choice. Single mixed, crimson, rose and double mixed.

Gentlemen:

The Callas I bought from you are absolutely the finest I have ever seen anywhere. They are now from three to three and one-half feet high, and many florists in the neighborhood who have called especially to see them, declare that they have never seen their equal.

Wishing you every success in this line, I remain,

Yours very truly,

P. H. WILLIAMS, Supt.,  
Stone Ridge Farm,  
Bethesda, Md.





**Delphinium, or Larkspur (Hardy)**

season; excellent for cutting.

**Didiscus—Lace Flower**—This pretty and interesting annual blooms most profusely from July till November; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time. **Pkt. 10c and 25c.**

**Digitalis (p) (Foxglove)**—Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 feet. **Pkt. 5c and 25c; oz. \$1.00.**

**Dolichos (a) (Hyacinth Bean, or Texas Climber)**—Showy climber, making rapid growth. White, purple and mixed. **Pkt. 5c; oz. 20c.**

**Eschscholtzia (a) (California Poppy)**—An elegant hardy annual with fine cut foliage and large poppy-like flowers; blooms from June till frost; fine for borders or large beds. Yellow and white mixed. **Pkt. 5c; oz. 40c.**

**Euphorbia (a)**—Plants with ornamental foliage, very showy and easily raised from seed. Known as "Snow on the Mountain." **Pkt. 5c; oz. 60c.**

**Forget-Me-Not**—See Myosotis.

**Four o'Clock**—See Marvel of Peru.

**Foxglove**—See Digitalis.

**Gaillardia (a) (B l a n k e t Flower)**—One of the best garden flowers, excellent for cutting. The large highly-colored, daisy-like flowers appear continually during the season. **Pkt. 5c and 10c; oz. 90c.**

**Godetia (a) (Satin Flower)**—Beautiful and easily grown, producing a profusion of flowers, satiny texture.

**Gourds (a)** — Dishcloth or Luffa—Nest Egg, Hercules Club, Pear Shape, Mock Orange, Sugar Trough, Calabash, or Pipe Gourd, Thermos Bottle, Chinese Lantern, and a general mixture; rapid climbers. Each, packet 5 cents; ounce, 40 cents.

**Ornamental Grass, Pennisetum Macrourum (p)**—This is very interesting and useful, either for growing in clumps, mixed borders or in shrubberies. Also when dried it is fine for winter bouquets and decorations, for which purpose it should be gathered before fully matured.

**Gypsophila (a) (Baby's Breath)**—Pretty, free-flowering plants of easy culture; excellent for cutting to mix with other flowers. White and carmine, 2 feet. **Pkt. 5c; oz. 50c.**

**Gypsophila (p)**—Paniculataalba, white. **Pkt. 10c; oz. 75c.**

**Helianthus**—See Sunflower.

**Heliotrope (a)**—A well known and highly prized plant on account of the delightful fragrance of the flower. Excellent for pots or beds. **Pkt. 5c and 25c.**

**Lime Marl**—Is the best material to use when the soil in your garden is too rich in acidity, which can readily be detected, when thick weed and moss make their appearance. See index for price.

**Delphinium (Hardy Perennial) Larkspur**—Highly prepossessing plants of stately appearance; of easiest culture, they are readily the most popular of all hardy plants. Their main season of bloom is in June, but if the flower-spike is cut back promptly it will branch and flower all through Fall. **Formosum: Blue white, centre. Chinese Album: White. Chinese Azureum: Blue. Kelway's Giant: Mixed. Pkt. 10c; 3 for 25c; oz. \$1.00.**

**Dimorphotheca (a) (Golden Orange Daisy)**—One of the showiest garden plants of recent introduction; fairly compact, bushy plants are literally covered with brilliant orange - gold, daisy-like blooms, on fairly long stems during the entire

**Helichrysum (a) (Strawflower)** — One of the best and most popular of the everlasting flowers. Valuable for cutting or decoration, either when fresh or dried. Mixed colors. **Pkt. 5c; oz. 80c.**

**Heliopsis (p) (Orange Sunflower)**—A handsome hardy perennial; producing an abundance of deep orange yellow flowers the entire Summer; excellent for cutting; 3 to 4 feet.

**Hibiscus (p) (Mal-low)** — These bear very showy flowers, are easily grown and should find a place in every garden. Mixed colors, white, pink and red; and Golden yellow. Sunset; height, 4 feet.

**Hollyhock (p)** — One of the most popular and desirable of hardy perennials. Excellent for planting among shrubbery or fringing a background for other flowers; 6 to 7 feet. **Chater's Improved Double Hollyhock in separate colors: pink, white, salmon, maroon, yellow and mixed colors; also single choice colors mixed. Pkt. 5c; oz. \$1.25.**

**Humulus (a) (Japanese Hop)**—A rapid growing annual climber with luxuriant foliage; excellent for covering trellises and verandas. **Pkt. 5c; oz. 50c.**



**Helichrysum or Strawflower**

**Hunnemannia (a) (Giant Yellow Tulip Poppy)**—Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles Eschscholtzia; height, 2 feet.

**Hyacinth Bean**—See Dolichos.

**Ipomoea**—See Moonflower.

**Ice Plant (a)**—Beautiful dwarf edging plants; flower profusely in dry and sunny situations. Fine for pots. Covered with watery vesicles resembling pieces of ice.

**Kochia (a) (Summer Cypress, or Mexican Fire Bush)**—An easily grown annual, which grows into a cypress-like hedge, with feathery green foliage; at the approach of Autumn the foliage turns to a deep red color; 2 to 3 feet. **Pkt. 5c; oz. 40c.**



**Kochia or Summer Cypress**

**Lace Flower**—See Didiscus.

**Kudzu Vine (p) (Puevaria Thunbergiana)**—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome purple flowers. The vine is extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc. **Pkt. 10c.**

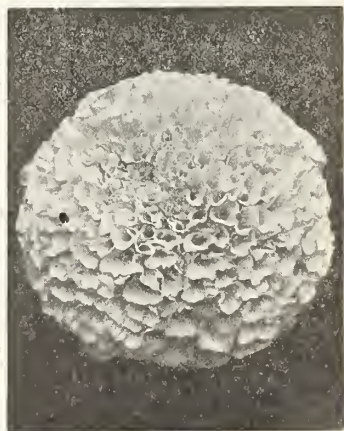
**Lantana (a)**—Most desirable bedding plant; seeds are best germinated in a greenhouse from January till March. Flowers resemble Verbenas; plants bloom all Summer. Mixed. **Pkt. 5c; oz. 50c.**

**Larkspur**—See page 28.

**Lathyrus Latifolius (Perennial Sweet Pea)**—Showy hardy climber, fine for covering walls and stumps. Free flowering. Mixed colors. **Pkt. 5c; oz. 60c.**

**Lupinus (p)** — Very desirable garden plants, showy, excellent for cutting. Graceful spikes 2 feet long in various shades of white, blue, pink and yellow mixed.

**Marigold (a)** — These are old favorite free flowering annuals with rich showy flowers blooming all summer. The tall African varieties are best for garden and cutting, while the dwarf French varieties are best suited for edging and bedding purposes. In colors and mixed. **Packet, 5c; ounce 75c, either kind.**



**Marigold**



**Gaillardia**





Marvel of Peru



Mignonette

**Larkspur** (annual)—Splendid annuals of easy culture. When sown early in spring will produce blooming plants in July. Graceful, fern-like foliage and slender spikes. Fine for cutting and garden decorations. **Pkt. 5c; oz. 75c.**

**Larkspur** (perennial)—See Delphinium.

**Lily of the Valley**—We furnish strong clumps for 25c.

**Lobelia** (a)—No garden is complete without an edging of blue lobelias. Very desirable for pots and hanging baskets.

**Marvel of Peru** (a) (Four o'Clock)—Bushy plants of easy culture, producing hundreds of flowers during the entire Summer; very showy; 2 feet. **Pkt. 5c; oz. 30c.**

**Mignonette** (a)—Valuable for cutting on account of its fragrance. Sow in succession during the whole Summer; may also be forced in greenhouses during Winter. Golden Machett and M.-S. Extra Fine.

**Golden Machett**—**Pkt. 5c; oz. 50c.**

**Mimulus** (a) (Tigrinus)—Showy, profuse flowering plants; fine for greenhouses or moist, shady situations; 1 ft.

**Momordica**—See Balsam Apple.

**Moon Flower** (a) (Ipomoea Noctiflora) Climber. At night and during dull days the plants are covered with an abundance of large, pure white, fragrant flowers. **Pkt. 5c; oz. 75c.**

**Moschatus** (Musk Plant)—Fine for hanging baskets; yellow flowers, fragrant foliage; 6 inches. Mammoth flowering.

**Mixed Imperial Japanese Morning Glories**—These are beyond question the handsomest of all Morning Glories. Of the easiest culture, can be sown in the open ground in a sunny situation when the weather has become warm and settled; they soon cover a large area, and even before flowering are decidedly interesting on account of the varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description; the self or solid colors range from snow-white to black-purple, with all the possible intermediate shades; there is also an endless number having flowers spotted, marbled, striped, flaked, splashed, etc. **Pkt. 5c; oz. 25c.**

**Giant Japanese Morning Glories**—The robust vines attain a height of from 30 to 50 feet. The foliage is luxuriant, distinct and varied, green, silvery and yellow leaves; many are mottled light and dark green, white and gray. But the surpassing charm of these "Giant Japanese Morning Glories" lies in the entrancing beauty and large size of the flowers; they measure from 3 to 4 inches across. The colors of the flowers, shadings and markings are limitless. Some flowers are of deep, rich, velvety colors, others daintily tinted and shaded. There are reds from soft rose to crimson and garnet; daintiest blue to purple; snow-white to silver-gray. Some are striped, blotched and spotted; others have magnificent edges and throats. Mixed colors. **Pkt. 5c; oz. 25c.**



Morning Glory

**Mourning Bride**—See Scabiosa.

**Myosotis** (a) (Forget-Me-Nots)—Beautiful, half hardy perennials, blooming the first year.

**Nasturtium**—See below.

**Nicotiana** (a)—Splendid pure white, Bouvardia-like flowers on long terminal tubes. It is so fragrant that a small bed will perfume the surrounding atmosphere.

**Oenothera** (a) (Evening Primrose)—Beautiful low-growing plant, producing large, silvery white rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties, all colors; mixed.

**Passion Flower** (p) (Southern Beauty)—Climber mixed. Called "Passion Flower" on account of a resemblance in the flower to the appearance presented at Calvary.

**Use our High Grade Sheep and Cattle Manure**, extensively in your flower garden and be repaid by best results. We can sell you a cart load in a 100 lb. bag. (See index for price.)

**Double-Flowering Morning Glories**—These beautiful climbing annuals are of very rapid and luxuriant growth; the flowers will come double, semi-double and a few, perhaps, single. The colors vary; there are various shades of blue, white spotted with red, white marbled with purple and lavender, crimson, pure white, etc. Mixed colors. **Pkt. 10c; oz. 50c.**

**Fancy Fringed Morning Glories**—The perfection of Morning Glories. Immense flowers, often as big as saucers, all wavy, ruffled and fluted from throat to margin, like crumpled velvet. They are simply magnificent. Mixed colors. **Pkt. 10c; oz. 50c.**

## M. & S. GIANT FLOWERING NASTURTITIUMS

Nasturtiums are among the best known and most popular of hardy annuals, and within the past few years have been greatly improved in size as well as in colors and markings. Easily grown, and producing a great profusion of brightly colored flowers from within a few weeks after they are sown until they are killed by frost; they succeed best in rather light, well-drained soil.

### M. & S. Dwarf-Named Nasturtiums

**Vesuvius** (Salmon Rose)—These have a neat, compact habit and attractive foliage, are not disturbed by insects, bloom in two months from sowing, and most profusely the whole season.

**Chameleon**—Produces various colors and markings on the same plant.

**Empress of India**—Dark-leaved velvety dark scarlet flowers; select flowers.

**Ladybird**—Rich yellow, scarlet-spotted flowers, dark-leaved; splendid.

**Queen of Tom Thumbs**—Variegated foliage; choicest mixture.

**Golden Queen**—Yellow-leaved, with golden yellow flowers.

Prices on all the varieties as follows: **Pkt. 5c and 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

Our Nasturtiums are noted for their size, variety and brilliancy.

**M. & S. Fancy Giant Flowering Mixed Dwarf**—**Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c.**

**M. & S. Tall or Climbing Nasturtiums**—For covering trellises, fences, arbors, piazzas, or trailing from vases, urns, etc. Bloom from early Summer until frost.

**Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.** M. & S. Giant Flowering Dwarf Nasturtiums



M. &amp; S. Tall or Climbing Nasturtiums



M. &amp; S. Giant Flowering Dwarf Nasturtiums

DO NOT HESITATE TO CALL ON US OR PHONE US FOR ANY INFORMATION PERTAINING TO RAISING OF VEGETABLES, OR FLOWER, GRASS AND FIELD SEEDS.



## M. & S. PERFECT PANSIES



### PANSIES

Strictly considered, this is a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three seasons in which Pansies can be planted. If started in the house from February till April Pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the Fall; sown in frames during July and August and transplanting later gives us the main crop of flowers the following Spring. Pansies thrive best in moist, semi-shady situations.

**Triumph of the Giant Pansy**—Immense flowers of great brilliancy and richness of coloring, including many new and rare



M. & S. Giant Exhibition Pansies

**M. & S. GIANT EXHIBITION PANSIES**—A blending of our own, containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. Pkt. 10c; 3 for 25c; \$3.00 per oz.

**M. & S. GIANT PANSIES**—In separate colors.

**Lord Beaconfield**—Purple, violet and white.  
**Snow Queen**—Pure white.  
**Emperor William**—Indigo blue black, blotched.  
**Canary Bird**—Pure yellow.  
**King of the Blacks**—Lustrous jet black.  
**Lord Baltimore**—Yellow maroon blotches.  
**May Queen**—White with violet blotches.

All the above: Pkt. 10c; 3 pkts. 25c.

M. & S. Triumph of the Giant Pansy

shades. Pkt. 25c; 5 pkts. \$1.00; oz. \$6.00.

**Masterpiece (Frilled Pansy)**—Flowers beautifully curled or raved. Exquisite colors. Pkt. 25c; 5 pkts. \$1.00.

**Very Fine Mixed Pansy**—Pkt. 5c; oz. \$1.50.

**Steele's Special Greenhouse Mixture**—Equally good for outdoor. Pkt. 25c; 5 pkt. \$1.00; oz. \$6.00.

Gentlemen—The tulips and hyacinths which I purchased from you are a wonder and the best I have received in my life.  
 MRS. P. H. ROSENDROLE, 4725 Harford Ave., City.

## Poppies

ALL FLOWER SEEDS 5 CENTS A PACKAGE UNLESS OTHERWISE NOTED

A great advance has been made in recent years in the development of the Poppy which has brought it into deserved popularity, and it may be safely said that no other flower produces more brilliant display of color during the blooming period. Annual Poppies should be sown as early in the Spring as possible where they are to remain, as they do not stand transplanting. Constant blossoms are desired, successive sowings should be made every two weeks.



**Oriente Poppies (p)**—Enormous flowers of deep, flashing scarlet, entirely hardy anywhere; 3 feet.

**"Mikado" (a)**—Double the Striped Japanese Poppy—This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum.

**American Flag (a)**—Beautiful variety; flowers very large and double, snow white, bordered with scarlet.

**Double Flowered Mixed Poppies (a)**—Immense double flowers, resembling a Peony; two feet.

**M. & S. Shirley Poppies (a)**—A bed of these Poppies produces a gorgeous effect in the garden; large flowers with brilliant colors; mixed. Oz. 40c.

**Iceland Poppy**—These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; 1 foot.

**Yellow Tulip Poppy**—See Hunnemannia.

**Portulaca (Sun Plant)**—Brilliant hardy annual, of easy culture; excellent for massing in beds, or rock work; thriving best in a light, sandy soil and a sunny situation; flowers of the richest colors. Single 75c oz; and double \$2.00 oz.

**Primula (a)**—Hardy primroses are among the most prized of our Spring blooming plants, 1 to 1½ feet high; mixed colors. Pkt. 10c.

**Primula Obconica**—Used for greenhouse; very finest mixture. Pkt. 30c and 60c.

**Primula Chinensis (Chinese Primrose)**—Very finest mixture. Pkt. 30c and 60c.

**Pyrethrum (p)**—Handsome hardy perennial plants for the herbaceous border; flowers showy and excellent for cutting.

**Rhodanthe (a)**—Very beautiful; delicate looking; everlasting. Much prized for Winter bouquets. Red and white and both colors mixed.

Do not forget to include in your order a bag of our high grade sheep manure, which will cover as much ground as a cart load of manure.

## Petunia

**M. & S. PETUNIA MAMMOTH (a)**—The Petunia is without a peer among annuals for effective Summer bedding or indoor culture. It is of easy culture, early to blossom and continues throughout the Summer until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. **Snowball**, pure white, Rosy morn, pink, and all colors mixed. Pkt. 5c and 25c; oz. \$1.50 each.

**Howard's Star Petunia**—A beautiful variety; produces a profusion of crimson-maroon flowers, each having a distinctive five-pointed white star. Single. Pkt. 5c and 25c; oz. \$3.50.

**Phlox Drumondi (a)**—One of our finest hardy annuals, on account of its long season in bloom. Easily grown from seed; makes a brilliant display as a Summer bedding plant. In all bright colors, or all colors mixed. Pkt. 5c and 25c; oz. \$1.50.

**Hardy Phlox (p)**—For a gorgeous show these are the most satisfactory of all perennial plants, 2 feet high, in all bright colors; seeds sown late in Fall will germinate in the Spring; mixed and white, pink, lavender and scarlet. Pkt. 10c; 3 for 25c; oz. \$2.00.



Petunia

We count among our valued customers many of the leading Clubs, State, Protestant, Catholic and Hebrew Institutions, Schools, Hospitals, Sanitoriums, Florists, Farmers and Private Gardeners.



## Ricinus (a) (Castor Oil Bean)



Ricinus

One of our best ornamental - leaved annual plants, largely used for the center beds, being splendidly effective grouped with Cannas, Caladiums and other tall plants.

**Zanibariensis** — A new and distinct class, surpassing in size and beauty all varieties hitherto known. Plants attain great dimensions — 12 to 14 feet. Leaves vary in color from light green to purplish-red. Pkt. 5c; oz. 25c.

**Borboniense** — Very large and most showy green foliage; standard variety; 10 to 15 feet. Pkt. 5c; oz. 25c.

**Philippinensis** — A variety from the Philippines, with beautiful and gigantic purple leaves; 10 feet. Pkt. 5c; oz. 25c.

**M. & S. Ricinus Mixture** — Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. Pkt. 5c; oz. 20c.

## Salvia (a) (Scarlet Sage)

**Salvia Splendens** — This popular bedding plant is impossible to be replaced. There is nothing more effective in the Fall or mid-Summer than these bright scarlet flowers. Seeds should be started either in the house from February till April or in hot-beds. Best bedder, beautiful scarlet flowers of immense size. Pkt. 5c and 10c; oz. \$2.00.

**Salvia Bonfire** — Compact bushy plants; two feet high; producing innumerable erect spikes of the most brilliant scarlet flowers. Height, 2½ to 3 feet. Pkt. 5c; ¼ oz. 75c.

**Salvia Early Dwarf Zurich** — Grows only 12 to 15 inches high, with many fine, erect, slender spikes to each plant, borne well above its handsome foliage. Color brilliant scarlet. Earliest of all. Pkt. 10c; ½ oz. 75c.

**Salpiglossis (a) (Painted Tongue)** — Very beautiful, hardy, annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop.

**Scabiosa (a) (Sweet Scabiosa, Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)** — Beautiful colored flowers, 2½ feet high; fine for cut flowers.

**Scarlet Runner (a)** — Ornamental and useful climbing beans. Pkt. 5c; oz. 10c.

**Sensitive Plant (a) (Mimosa)** — A curious and interesting half-hardy annual, with pinkish flowers, leaves close when touched; 1½ feet high.

**Smilax** — A well-known greenhouse climber, with small, dark-green foliage; of great value in floral work. Pkt. 10c; oz. 60c.

**Snappedragon** — See Antirrhinum.

**Stock (a)** — Half-hardy annual; fine for cutting, bedding or edging, also pot culture; average 1 to 1½ feet. Mixed colors, 5c. White, pink, yellow, crimson, light blue, dark blue, separate colors. Pkt. 10c each.

**Stokesia (p) (Cornflower Aster)** — Blooms all Summer. Large attractive flowers, resembling asters; fine for cut flowers; two feet high.

**Strawflower** — See Helichrysum.

**Sweet William (p) (Dianthus Barbatus)** — This is one of the finest of our hardy garden plants; of easy culture; thriving in any good garden soil and lasting for years. The plants grow about 1½ feet high, and form fine clumps; produces fine effects in beds and shrubbery. Single crimson, single red with white eye, single velvety maroon, single white and choicest double mixed, single mixed; all colors. Each, 5c pkt; oz. 75c.

**Sweet Sultan (a) (Centaurea Moschatas)** — Hardy annual; flowers resemble "Tachlor's Buttons," fragrant flower on long stems.

**Sweet Peas** — See page 31.



Scabiosa

## Sunflower (a)

(THE UNIQUE RED SUNFLOWER)



The Unique Red Sunflower

Of recent introduction. The plants reach a height of from 5 to 8 ft. and throw out many branches. Flowers are very numerous, of good form, usually having large long rays and small discs. Heads vary greatly in size—some are only 2 or 3 ins. across, while others are a foot or more. The color diversifies greatly, some plants produce flowers of rich chestnut red, others red flowers tipped with yellow, others washed with red. This variety in size and color makes a hedge or border interesting and attractive. Some few seeds will produce plants bearing yellow flowers; for, although the seeds came from carefully selected stock, they were grown in a region where

sunflowers abound and the wild, doubtless, have crossed some with pollen from the wild flowers. The plants likely to produce yellow flowers have no purple in stem or leaf and can be destroyed when seedlings. Pkt. 10c; oz. 50c.

**Sunflower (a) (Large Russian)** — Six to eight feet high; immense flowers. Oz. 10c.

**Thunbergia (a) (Black-Eyed Susan)** — Beautiful. Very ornamental climber.

**Verbena (a)** — Dwarf bedding plants for a gorgeous display during the Summer months cannot be excelled, commencing to flower in July and continuing until frost. Our Mammoth Fancy Strain cannot be surpassed for profusion of bloom and beautiful colors and shades. M. & S. Fancy White, Scarlet, Dark Blue, Striped, Light Blue and all colors mixed. Pkt. 5c; oz. \$1.50.

**Vinca (p) (Madagascar Periwinkle)** — Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early.

**Violet (p)** — Deservedly much in demand because of their profusion of bloom and delicate odor. Pkt. 10c.

## Wallflower (p)

Favorite sweet-scented flowers of fine colors. Splendid for cutting and useful as Spring bedders.

**Cloth of Gold** — Yellow.

**Early Feltham** — Fine brown, dwarf.

**Vulcan** — Dark blood red. All colors mixed.

**Wild Flower Garden (a)** — Fine mixture of old favorites. Pkt. 5c; oz. 15c.

**Wild Cucumber Vine (a)** — One of the quickest growing annual vines we know of; splendid for covering trellises, old trees; fences, etc. Clean, bright green foliage and sprays of white flowers during July and August, also known as Pants and Petticoat.

## Chinese Wool-Flower



Chinese Wool-Flower

most odd and novel garden flower.

Plants grow two to three feet high, the blooms starting early with a central globular head which often reaches the immense size of two feet in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage so that a plant looks like an immense bouquet splendidly arranged and set in the ground. None of the blooms fade in any way until hit by frost, but all continue to expand and glow with a deepening richness of color, a deep crimson-scarlet. Seed: 10c per pkt; 3 pkts, for 25c.

This was introduced from China some years ago and has proved a great success everywhere. There is not the slightest doubt but that it is the most magnificent garden annual. Its ease of culture and long continued season of bloom (early in July until frost), together with its massive bunches of wool-like flowers and glowing color combine to make it the showiest as well as the



## M. & S. SPENCER, or ORCHID SWEET PEAS

Nothing within recent years can approach in importance the introduction of the "Spencer" Sweet Peas. They are distinguished from the Grandiflora sorts by the enormous flowers with crinkled and wavy petals, and also from the fact that they usually bear four blossoms on a stem. The plants are of robust growth and bear the flowers on long stems.

**Constance Hinston**, Best White. **Blanche Ferry**, Pink and White. **Mrs. Outzahn**, Apricot Supposed Pink. **Wedgwood**, Blue. **Primrose Spencer**, Pink. **Hercules**, Pure Pink. **King Edward**, Pure Red. **Margaret Atlee**, Rosy Buff. **Blue Picotee**, White Blue Edge. **Masterpiece**, Lavender. **Othello Spencer**, Deep Maroon. Price on all the above. **Pkt. 10c; oz. 20c; ¼ lb. 5c; 1 lb. \$2.50.**

**M. & S. SUPERB SPENCER MIXTURE**—A mixture that cannot be surpassed. **Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.**

### M. & S. Gilt Edge Sweet Pea Mixture

This superb mixture is blended by us with extraordinary care from named varieties of the most improved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet unnamed, insuring a gorgeous color effect. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 40c; 1 lb. 75c.**

### M. & S. Winter Flowering Spencer Sweet Peas

For indoor forcing. This seed has been grown from originator's stock and can be depended upon for excellent results.

**Snow Flake**—Large and of the best waved Spencer form. The pure white flowers are borne in wonderful profusion on long stems.

**Lavender Orchid**—Rich, true, deep lavender throughout; of large size and well waved.

**Zvolanek Red**—Extra large; color, pure deep red.

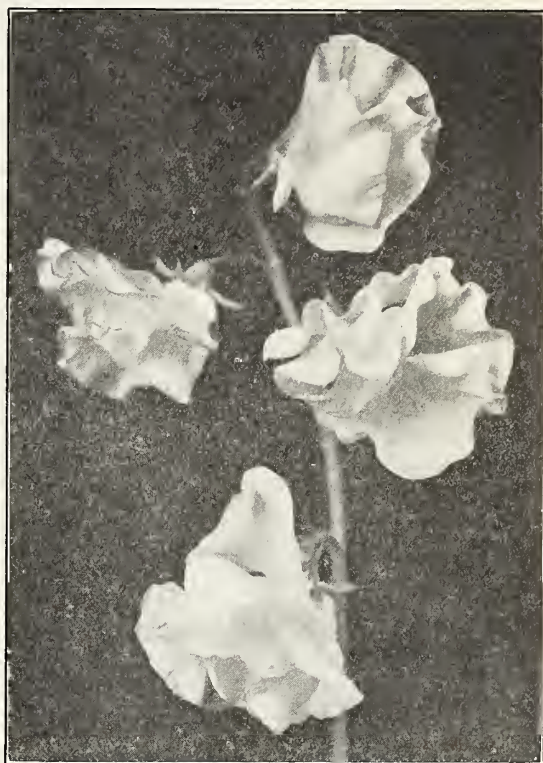
**Columbia**—Salmon color standard; white wings.

**Yarrowa**—Flowers exquisitely waved, of large size, many of them being triple or double. Color, a pleasing shade of bright rose pink with lighter tinges.

**Hercules**—Flowers are of extra large size, of good substance and beautifully waved; color, soft rose pink.

All the above, 10c per pkt.; ½ oz. 40c; 1 oz. 75c.

**FARMOGERM NITROGEN-FIXING BACTERIA, SPECIALLY PREPARED FOR SWEET PEAS. GARDEN SIZE, 50c.**



Spencer, or Orchid Flowering Sweet Peas

## M. & S. CHOICE ZINNIAS (YOUTH AND OLD AGE)

The Zinnia is one of the most brilliant, showy and satisfactory annuals, and has long been a general favorite. The seed can be sown early in the hotbed or light window and transplanted, or sown later in the open ground. They come into flower early in the summer, and keep on blooming until hard frost. The varieties offered are the most important kinds.

**M. & S. SPECIAL STRAIN OF GIANT FLOWERING DOUBLE ZINNIAS**—A special strain of this grand old favorite free and continuous flowering annual, which produces flowers of colossal size, specimens measuring from 5 to 6 inches across being not unusual. Plants are of extremely robust habit, attaining a height of about 3 feet and bearing on long strong stems numerous



M. & S. Giant Flowering Zinnia

semi-globular, mostly very double flowers, all of the largest size, making them of great value in large beds, borders, etc.; grown under favorable conditions they remain in bloom from early summer to late autumn.

We offer six of the most wanted colors, separately, as well as a splendid mixture of many colors, as under:

**Giant Flowering**  
**Orange.** Pkt. 10c; oz. 75c.  
**Crimson.** Pkt. 10c; oz. 75c.  
**White.** Pkt. 10c; oz. 75c.  
**Pink.** Pkt. 10c; oz. 75c.  
**Canary Yellow.** Pkt. 10c; oz. 75c.  
**Buttercup.** Pkt. 10c; oz. 75c.

**Collection of a packet each of the above 6 colors, 50c.**

**Giant Flowering Mixed.** All colors. Pkt. 5c; oz. 50c.

**MADERIA, or MEXICAN VINE (Hardy)**—The tubers, if planted deep and protected during the Winter, are hardy. The leaf is very deep green, and grows very dense; the flower is small, white in color and fragrant. This very rapid-growing vine should be planted wherever a dense, quick shade is desired. **Roots, 5c each; 50c dozen. Parcel post weight, 1 doz. 1 lb.**

**M. & S. Victory Zinnia**—This is a new introduction of Zinnia, forming quille petals. Choice mixed including all beautiful and several new colors. **Pkt. 10c; oz. \$1.00.**

**Curled and Crested Zinnia**—The petals of this beautiful strain are twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the brilliant shades characteristic of the Zinnia. **Pkt. 10c; oz. 75c.**

**M. & S. Double Dahlia-flowered Zinnias**, bearing flowers of mammoth size and in form like a perfect decorative Dahlia. As the result of painstaking care and selection the size, form and coloring has been much improved the past season. The mixture which we offer contains a wonderful range of beautiful colors; 3 feet. **Pkt. 10c; oz. \$1.00.**

**M. & S. Picotee Type Zinnia**—We offer for the first time this exquisite new Zinnia. The flowers, which are not quite as large as the double giants, are very effective in appearance, as the edges of the petals are all well marked with a distinct color to the body of the flower, making them very attractive as bedders and cut flowers. **Pkt. 10c; oz. 75c.**



Dahlia Flowering Zinnia



## M. & S. SUPERFINE GLADIOLUS

Our bulbs are  
1½-in. and up.

If by Parcel Post, add postage at Zone Rates (average weight, 10 lbs. per 100. Single bulbs and dozens we deliver free in U. S. Culture—What a wonderful stride the Gladiolus has made during recent years. Its popularity today is exceeded by few other flowers, and it has by no means reached its limit. And there are good reasons for this popularity. Failure with it has never been known. Gladiolus will grow in any open position, where there is a fair amount of sun, and bloom well. They are not only showy in the garden, but, when cut with the first flower open will last for 10 days in the house. The newer colorings defy the choicest orchids. Plant bulbs 3 to 4 inches deep, 6 inches apart and stake when 2 feet high. Flowers appear from early July until late in the fall.

**Gretchen Zang**—Soft melting shade of pink, blending into scarlet. 10c each; 80c doz.; 100, \$6.00.

**Blue Jay**—Beautiful pale blue with white blotch. 20c each; \$2.00 doz.

**Le Marechal Foch**—Beautiful shade of light pink, very large flowers, early bloomers. 20c each; \$2.00 doz.

**Wellesley**—Pretty lilac pink, the two lower petals of soft primrose with crimson mark in throat. 20c each; \$2.00 doz.

The above four are recent new introductions.

**America**—A beautiful flesh pink, tinged with lavender. A variety of robust growth and easy cultivation. The flowers are very large and expanded, many being open at one time. 6c each; 60c doz.; 100, \$4.00.

**Schwaben**—A most meritorious imported variety of wonderful vigor, with strong erect spikes and large well-expanded flowers of a clear canary yellow with a small blotch of deep garnet in the throat. 10c each; \$1.00 per doz.; \$7.50 per 100.

**Niagara**—An entire new color in Gladiolus, to describe it intelligently one must imagine a shade of rich cream combined with canary yellow. The form and habit of this variety is exactly like America, except that the spike grows taller. The individual flowers are very large and borne in pairs opposite each other. 7c each; doz. 80c; 100 \$6.00 per 100.

**Mrs. Francis King**—One of the best and most popular sorts, which comes in for much admiration, both for size of flower and beauty. A most beautiful flame pink. Immense flowers on a spike growing 4 feet high, with from 18 to 20 flowers, 6 to 8 being open at one time. Many of the bulbs produce two and three flower-spikes; a gem among Gladiolus. 6c each; doz. 60c; \$4.00 per 100.

**M. & S. Blue Hybrids**—A fine mixture of dark blues, including Baron Joseph Hulot and most all recent Blue introductions. 7c each; 80c doz.; \$6.00 per 100.

**Prinsep**—Amaryllis-shaped, gigantic flowers of a dazzling bright scarlet, marked with white on the lower petals. Two to three flowers open at one time. 10c each; doz. 80c; 100, \$6.00.

**Halley**—Delicate flesh rose, with white blotch, very lovely. 6c each; 60c doz.; \$4.00 per 100.

**Panama**—A grand new seedling of America which it resembles, but is of deeper pink; flowers very large and spike long. 10c each; \$1.00 doz.; \$7.50 per 100.

**Chicago White**—Pure white, lavender markings. 7c each; 75c doz.; \$5.00 per 100.

**Augusta**—Beautiful ivory-white, faintly-tinted rose without markings; large flower with frilled edges. 7c each; 75c doz.; \$5.00 per 100.

**M. & S. Choice Mixed Gladiolus**, composed of all named varieties in gorgeous blending. 5c each; 50c doz. 100 \$3.00.



Gladiolus "America"



M. & S. Choice Mixed Gladiolus

## M. & S. Superfine Canna Bulbs

In almost every private garden, in all public parks and in most of the large cemeteries, Cannas are used with the greatest effect to adorn the surroundings. It is difficult to convey in language an idea of the beauty of the Canna plant and flower

**Culture**—Canna tubers should not be put into the ground until the soil has become warm. They commence blooming in June and continue until late in September. Every shoot bears a flower and these shoots are being constantly produced throughout the blooming season.

**Note**—Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with well-developed plants.

**Rosea Gigantea**—A wonderful novelty, the largest of pink cannas in existence, colored a rich rose pink, foliage green. 4 ft. 10c each; \$1.00 doz.; \$8.00 per 100.

**Gladiator**—One of the finest bedders, color deep yellow freely dotted with red; 4½ feet; green foliage. 7c each; 70c doz.; \$5.00 per 100.



King Humbert Canna

**Gustav Gumper**—This is an ideal, rich yellow bedding Canna; the flowers of a good size, are held well above the foliage. The color is a rich golden yellow; a shade that can be seen as far as the eye can carry. 7c each; 70c doz.; \$5.00 per 100.

**Maros**—The best white flowering Canna. Its flowers of creamy white are produced very freely on stems thrown well above the foliage. 7c each; 70c doz.; \$5.00 per 100.

**King Humbert**—Truly a king among the Cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a center, edged with a dwarf yellow Canna, or vice versa, placing it around a center of a tall yellow variety. 8c each; 85c per doz.; \$6.25 per 100.

**J. D. Eisele**—Brilliant vermilion scarlet. 3½ feet. 7c each; 70c doz.; \$5.00 per 100.

**Jean Tissot**—Brilliant vermilion, orange shading. 3½ feet. 7c each; 70c doz.; \$5.00 per 100.

**Uncle Sam**—Clear, deep orange flowers, borne in large clusters; often a foot across each, branching stems, about 4 feet; strong vigorous grower. 10c each; \$1.00 doz.; \$7.50 per 100.

**Louisiana**—Large orchid flowering, beautiful orange scarlet; 5 feet; green foliage. 10c each; \$1.00 doz.; \$7.50 per 100.

**Queen Charlotte**—Makes a gorgeous display when planted in masses; color a wide band of yellow, bordering a center of scarlet; 3 feet high; green foliage. 7c each; 70c doz.; \$5.00 per 100.

**Florence Vaughan**—Grows 5 feet high green foliage, rich golden yellow, dotted red. 7c each; 70c doz.; \$5.00 per 100.

**Venus**—Rose Pink with mottled border of creamy white. 7c each; 70c doz.; \$5.00 per 100.

**Wyoming**—Bronzy-purple foliage with immense spikes of massive orange flowers; 7 feet. 7c each; 70c doz.; \$5.00 per 100.

**Canna Plants in May**—15c each; \$1.60 doz.; postage extra. 5c per plant, dozen lots, 25c.

Gentlemen:

The Tulips and Hyacinths which I purchased from you are a wonder and the best I have received in my life.

MRS. P. H. ROSENDROLE,  
4725 Harford Ave., City.



## The New Dahlia PATRICK O'MARA

The sensation of the New York show of the American Dahlia Society in 1920 where it was awarded the following: American Dahlia Society, Gold Medal; Society of American Florists, Silver Medal; Toronto Horticulture Society, Bronze Medal; Received the highest score at the trial grounds of the American Dahlia Society at the Connecticut Agriculture College in 1920 under ordinary field culture. During the trying season of 1921 it maintained its reputation in every way, giving almost universal satisfaction all over the country and a prize winner wherever exhibited. The flowers can be grown to enormous size by special care under ordinary field culture, they are about five to six inches in diameter, produced on long stems, which holds the flower erect. The color is an unusually soft and pleasing shade of orange buff, slightly tinged with neyron rose, a true autumn shade that is greatly in demand. It is splendid shipping and long keeping Dahlia. We feel safe in saying there is none better for commercial use or more pleasing for the garden. Price of tubers or plants, \$1.00 each; \$10.00 doz. postpaid.

## M. & S. "Giant Flowering" Dahlias

The native home of the Dahlia is Central America and Southern Mexico. Its earliest known history dates back to 1657, and at this date was called cacti by the Aztec Indians. Later its name was changed to Georgina, after Prof. Georgi, or St. Petersburg, which name is still used in some of the German catalogs. Again the name was changed to AHLIA, after Mr. Dahl, a Swedish botanist. The Dahlia in its native state is single. The first double forms appeared in 1814 and are credited to Mr. Monkelaar. The first double forms were the types now known as SHOW and FANCY. The POMPOM form appeared in 1858 to 1860. Next came the DECORATIVE form, but its origin is not clearly defined, but probably dates back some forty years. The first CACTUS Dahlia originated in 1872, but was not placed on the market until 1880. It was named Juarez after President Juarez of Mexico. This is the popular type of the present day and there are some two hundred named varieties of the Cactus Dahlias today that have descended from the original Juarez. The PEONY FLOWERED type is of quite recent origin, dating back but a few years and is becoming very popular.

Spade or plow the ground to a depth of about 10 inches. As a fertilizer, use either well-rotted stable manure, or better still, sheep manure, which should be well mixed with the soil. When the soil is properly prepared, dig a hole 6 inches deep, in which to plant the Dahlias. The bulbs should be laid down at and covered to a depth of 4 inches. Every Dahlia should have from 2½ to 3 feet space and at least 4 feet between the rows.

As soon as the plants are a foot above the ground they should be tied to a stake. Keep the ground well cultivated and free from weeds. An implication of sheep manure about every two weeks will be of great benefit.

Never leave more than one shoot to a plant. You will have better plants and larger flowers if you will allow only one shoot to a plant.



THE NEW DAHLIA PATRICK O'MARA

'Gentlemen: "My dahlias turned out to be as fine as I have ever seen. Am more than pleased with them."

MAURICE F. MOLDER, 102 Oakley Avenue.

Mr. Gustav John, of Catonsville, Md., said: "The collection of dahlias which you sold me last season was wonderful. I certainly had some beauties and am highly pleased with them."

## Two New Distinct Peony Dahlias

**OTTILIA MEYER**—Named after Mr. Meyer's young daughter. A beautiful Peony Dahlia. The plant is all that could be asked in a sturdy, symmetrical growth, attaining a height of 6 feet. Blooms very freely on strong stems of remarkable length. Color a tinted cream pink. Beautiful by day and simply grand under artificial light. Being a free root maker it is priced remarkably low for its quality. Price, 50c; \$5.00 dozen, postpaid.

**JOHN STISSER**—A new king among this popular type of Peony Dahlias, producing its immense flowers in profusion on long stems. Beyond question one of the grandest flowers of the type. Flowers range in size from 6 to 8 inches in diameter and almost perfect in form. Color clear orange red. In habit the plant is an extra long, robust grower, attaining a height of 6 feet, and carries its large handsome flowers well above the foliage. Price, 50 cents each; \$5.00 dozen, postpaid.



OTTILIA MEYER



JOHN STISSER



# M. & S. SUPERB DAHLIAS

If to be sent by parcel post add 10 per cent to the purchase price.



## Cactus Varieties

**Alpenrose**—A fine flower, with twisted petals of a rich aniline red, intensified by a golden suffusion. 25c each; \$2.50 doz.

**Countess of Lonsdale**—Rich salmon. 15c each; \$1.50 doz.

**Crystal**—A splendid exhibition of flowers of large size and form; long, twisted and incurved, tubular flowers of a tender, silvery pink, shading to waxy white in center. 25c each; \$2.50 doz.

**Flora**—Large, pure white flower. 15c each; \$1.50 doz.

**Genl. J. B. Seth**—A rich, gorgeous dahlia of brilliant scarlet shadings; of perfect form; held well above the foliage on stiff stems. This variety is a glow of color until the end of the season. 25c each; \$2.50 doz.

**Golden Gate**—Truly a colossal cactus; flowers often measuring 9 inches in diameter, full to the center. Petals are of a heavy leathery texture. The color is a bright golden yellow, early and free flowering. A first class dahlia in every respect. 35c each; \$3.50 doz.

**Lavine**—White showing blush as the flowers mature. 15c each; \$1.50 doz.

**Standard Bearer**—Rich, fiery red. 15c each; \$1.50 doz.

**Wodan**—Bold, large, but not coarse flowers, frequently 7 inches in diameter; a graceful arrangement of semi-curved petals of a pleasing delicate salmon-rose color, shading to old gold in center. 25c each; \$2.50 doz.

## Peony Flowering Varieties

**Hon. R. L. Bordon**—Large; distinct, rich, golden bronze. One of the finest of recent introduction. 25c each; \$2.50 doz.

**John Stisser**—See page 37.

**Otilia Meyer**—See page 37.

**President Fallieres**—The color is a most intense red, so vivid as to dazzle the eye, free flowering and of the finest form. 35c each; \$3.50 doz.

**Seedling No. 37**—The most delicate and tender combination of a soft, rosy lavender, suffused and overlaid silvery fawn. 35c each; \$3.50 doz.

## Decorative Varieties

**Augusta Nowin**—A very large flower of fiery red, very free and borne on long, stiff stems. 25c each; \$2.50 doz.

**Celeste Meyer**—Strong grower, large flowers of tango red heavily tipped and striped white, very attractive and exquisite, prolific bloomer. 25c each; \$2.50 doz.

**Delice**—Beautiful glowing rose pink; good stems, fine for cutting. 15c each; \$1.50 doz.

**Dorothy Peacock**—A beautiful flower; color, best shell pink; fine for cutting. 15c each; \$1.50 doz.

**Eleanor Stisser**—Tall and vigorous, handsome flowers of a unique shade of buff to salmon, with a distinct shading of pink. 25c each; \$2.50 doz.

**Golden West**—Best yellow, good stems. 25c each; \$2.50 doz.

**Hortulanus Witte**—A very large, long stemmed pure white. A splendid cut and exhibition variety. 25c each; \$2.50 doz.

**Jack's Discovery**—White, mottled violet rose. 25c each; \$2.50 doz.

**Jack Rose**—Rich, velvety crimson. An ideal cut flower sort. 25c each; \$2.50 doz.

**Lyndhurst**—Intense, rich, vivid, scarlet. 15c each; \$1.50 doz.

**Miss Minnie McCullough**—Soft yellow overlaid with bronze. 15c each; \$1.50 doz.

**Sebastapol**—One of the finest of recent introduction; flowers rich, bright orange, of good substance, borne freely on long, stiff stems. The best in its class and color. Good cut flowers. 25c each; \$2.50 doz.

## Show Varieties

**Chas. Lanier**—Yellow amber, shaded buff. 15c each; \$1.50 doz.

**Queen of Yellows**—Pure yellow, quilled petals. 15c each; \$1.50 doz.

**Ethel Maule**—Pure white, lavender in center. 25c each; \$2.50 doz.

**Zebra**—Pearl white, edged pink. 15c each; \$1.50 doz.

## Pompon Varieties

**Alewine**—Flesh edged lavender pink. 15c each; \$1.50 doz.

**Allie Mourey**—Pinkish white, tipped deep pink. 15c each; \$1.50 doz.

**Little Beauty**—Delicate shrimp pink. 15c each; \$1.50 doz.

**Little May**—Bright lemon yellow. 15c each; \$1.50 doz.

**Snowclad**—White, an early and profuse bloomer. 15c each; \$1.50 doz.

## SINGLE VARIETIES OR CENTURIES

**Scarlet Century**—Bright scarlet. 15c each; \$1.50 doz.

**Sensation**—A double century. Vivid, scarlet heavily tipped white. 25c each; \$2.50 doz.

## Collarettes

**Maurice Revor**—Blood red, with a pure white collarette. 15c each; \$1.50 doz.

**Valentine**—Yellow shading crimson, white collarette. 25c each; \$2.50 doz.

**Souv. de G. Duzon**—Enormous orange red flowers. 25c each; \$2.50 doz.

## Box Collection of Dahlias

A new departure; put up in sets of 8 assorted varieties, unlabeled, embracing a wide range of colors, red, white, pink, yellow, variegated, etc. This collection is put up in a telescope box and is sent through Parcel Post to any part of the United States for \$1.00.

## CLASSIFICATIONS OF DAHLIAS

**Class 1.—Cactus**—This class embraces the long, narrow-petaled varieties, the petals of which are generally pointed or twisted.

**Class 2.—Decorative**—This class is an intermediate form having broad, flat petals.

**Class 3.—Peony Flowered**—A semi-double of the decorative form.

**Class 4.—Pompon**—This class embraces the small, round Dahlias.

**Class 5.—Show**—The name Show applies to those varieties producing large, well-formed flowers, showing only solid colors, but may frequently have shaded tips, quilled petals.

**Class 6.—Single**—Century Varieties.

**Class 7.—Collarettes**—Single flowers with another layer of petals on the stamen.

No Garden is Complete without these  
Great Favorites.





## Double Pearl Tuberose

**Culture**—One of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after first of May. The bulbs we offer are not to be compared with cheap ones—ours are sure bloomers. Soaking them over night in lukewarm water promotes rapid growth. 5c each; 40c dozen; \$2.75 per 100, postpaid.

## Tritoma

(Flame Flower, Torch Lily, or Red Hot Poker Plant)

Tuberose

In Midsummer and Autumn, when other flowers are on the wane, Tritoma looms up and furnishes a wealth of bloom till killing frosts check it. The roots are considered hardy, though we, however, recommend that they be lifted in the Autumn and placed in a box of soil or sand, preferably in the cellar.

**Pfitzeri**—Blossoms from August till October; rich orange scarlet. We are now taking orders for next May delivery for good, strong plants, 50c each, postage 5c each.

## Hardy Japanese Garden Lilies

All Postpaid.



Lilium Auratum

All herbaceous borders should have a few lilies scattered through them. The sorts offered below can be planted with excellent results during the early Spring months. It is in the hardy border that lilies do best, as they get the benefit of the shade of the surrounding plants, which is so necessary for their welfare; other varieties should be planted in the Autumn, and are offered in our Autumn catalogue.

**Auratum (Gold-banded Lily)**—Large, graceful flowers, composed of six petals of a delicate ivory-white, thickly studded with chocolate-crimson spots and striped through the center by a golden yellow. 30c each; \$3.00 per dozen.

**Speciosum Album**—Large white flowers of great substance, with a greenish band running through the center of each petal. 30c each; \$3.00 per dozen.

**Speciosum Rubrum, or Roseum**—White, heavily spotted with rich, rosy-crimson spots. 30c each; \$3.00 dozen.

**Speciosum Magnificum**—Rich, deep red. 30c each; \$3.00 dozen.

## M. & S. Gloxinia Bulbs

This beautiful house plant can be highly recommended. Mixed colors. 25c each.

## M. & S. Cyclamen Bulbs

An exquisite flower for indoor culture only, coming in bloom in January. Most useful for window, room or hothouse. Colors: rose, dark-crimson and white. Price, 25c each.

## M. & S. Tuberous Rooted Begonia Bulbs

Another charming house plant, beautiful foliage and exquisite flowers. Single or double. Colors: Red, white, yellow, pink and lemon. Price, 20c each; \$2.00 per dozen.

The above three items can be set outside after the danger of frost is over.

## Caladium Esculentum

(ELEPHANT EAR)

As center pieces of specimen in flower beds Caladiums answer well. They also make an excellent edging for a hardy bed of grass, for Ricinus and other tall growing plants. When planted in a bed alone, a border of Scarlet Sage removes the one color effect and makes a beautiful contrast. Do not plant Caladiums outdoors until after May 1, but to get them in early growth they may be started indoors.

Monster Bulbs, 15c each; \$1.75 dozen.

Mammoth Bulbs, 10c each; \$1.00 dozen, both postpaid.

## Genuine Chinese CINNAMON VINES

Beautiful leaves, dainty flowers, exquisite perfumes.

Most beautiful—most fragrant and easiest grown of all climbers. Will make your porches, windows and walks "perfect bowers of beauty."

Once planted, will grow a lifetime.

Cinnamon Vines also make charming window plants—in doors or out.

**Perfectly Hardy**—Grow in sun or shade, wet or dry, indoors or out. No insects or blight ever troubles. No winter harms. Their abundant blossoms perfume the air for a long distance. No words can describe their delicious fragrance.

**Headquarters Stock.**

Order at once.

Tubers keep perfectly till planting time.

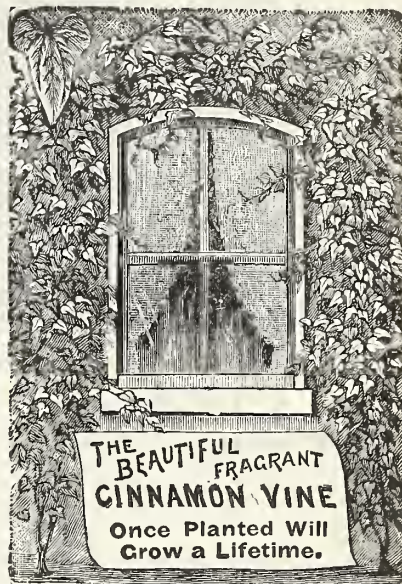
**For Windows**—Plant two on each side. For porches, walks, etc., plant the tubers 8 inches or a foot apart, cover 2 inches. Furnish twine support for the vines.

"It always pays to make the home beautiful."

Get them now at greatly reduced prices.

**SPECIAL PRICES:** Selected Tubers, medium size, 5 for 25c; 10 for 50c; 20 for \$1.00.

**EXTRA LARGE**—2-year old, will make enormous vines in a few weeks, at just double above prices.



From Prof. W. H. Morse, Agricultural Chemist, Hartford, Conn.: "Your Cinnamon Vines were the marvel of the city. They were more wonderful, more pleasing and more fascinating than ever. Their sweet perfume captivates every heart."

From Lydia and M. J. Clarkson, Authors of "Art Studies": "No Vines ever gave us so much continued pleasure. Their growth is truly phenomenal. Their handsome foliage and fragrant blossoms commend them to every lover of flowers. If their merits were more widely known you would be overwhelmed with orders."

### CINNAMON VINES ALSO MAKE CHARMING HOUSE PLANTS.

"We think your Chinese Cinnamon Vines one of the most desirable house plants for winter. They bloom as freely in the house as out doors, and they can be trained over and around a window, and will fill a room with a delightful fragrance in the cold and dreary winter months."—S. Wilson, Bucks Co., Pa.

### CINNAMON VINE TUBERS SPLENDID FOR EATING.

"I write to tell you that your Cinnamon Vines make fine eating. I have had a row across my yard for years, and I often dig a lot and bake and eat them same as sweet potatoes. They are just splendid. I think every one should grow them." L. S. Wright, Portland, Ore.

### THE BEST TESTIMONIAL OF ALL—FROM OUR OWN GROWER.

"Nearly every neighbor for miles around who have seen the vines and noted their wondrous perfume while passing along the highway, have purchased a supply. What more need be said?"

"Let their beauty and fragrance bless your home."





Cutflower Rose, Columbia

## Hybrid Perpetual Roses

**WHITE AMERICAN BEAUTY** — The best snow-white Rose we have. Splendid buds and immense flowers. Very distinct. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.

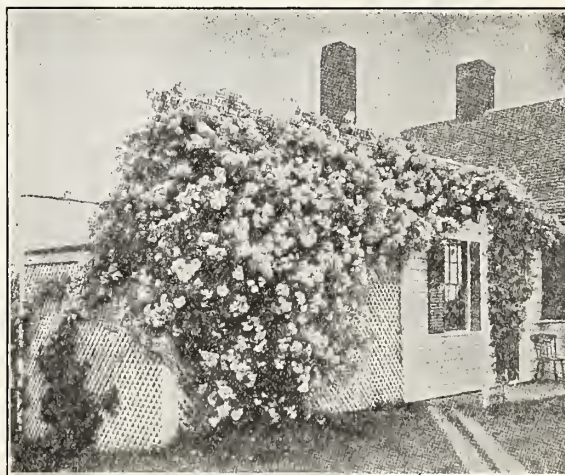
**PRINCE CAMILLE DE ROHAN** — The dark velvety red, almost black. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.

**GEN. JACQUEMINOT** — The famous "General Jack" Rose. Velvety crimson. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.

**CLIO** — "Peony Rose." Flesh, shaded Rose-pink. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.

**GLOIRE LYONNAISE** — Rich creamy-white, tinted orange and fawn. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.

**J. B. CLARKE** — Color, intense scarlet, shaded crimson maroon. Each 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.



Rose Tausendschoen or "Thousand Beauties"

## Hardy Climbing Roses

For Porches, Trellises, Etc.

**CLIMBING AMERICAN BEAUTY** — Large glowing red; fragrant; very hardy. A true American Beauty in both size and color. Porch or trellis cover. Each, 25c; 2-yr. 65c; 3-yr. \$1.00.

**EXCELSA** — Bright crimson flowers borne in clusters of from 20 to 40 blooms, almost concealing the foliage. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

**DOROTHY PERKINS** — A wonderfully fast-growing beautiful shell-pink climber; cluster flowers. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

**HARDY MARECHAL NIEL** — An excellent hardy yellow climber. None better. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

**BLUE RAMBLER** — Magenta blue in color. A perpetual source of wonder. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

**DR. W. VAN FLEET** — "Flowers over four inches across." Color, a delicate shade of flesh pink, deepening to rosy-flesh in the center. Stems 12 to 18 inches long. A peer among climbers. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

**THOUSAND BEAUTIES** — A single cluster of flowers is a whole bouquet in itself, hence the very fitting name "Thousand Beauties." Color a tender rose showing tints of carmine, white and yellow. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

**AMERICAN PILLAR** — Its great mass of bloom fairly covers the bush. Flowers very double. Color is a flaming pink. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

**SHOWER OF GOLD** (Improved Yellow Rambler) — Color a deep golden yellow with orange shadings. Beautiful metallic foliage. Each, 1-yr. 25c; 2-yr. 65c; 3-yr. \$1.00.

## Everblooming ("Monthly") Roses

**AMERICAN BEAUTY** — The most famous of American Roses. Rich color and delicious fragrance. Deep brilliant red, shading to a rich carmine-crimson. Price, 1-yr. 30c each; 2-yr. 60c; 3-yr. \$1.00.

**WHITE MAMAN COCHET** — "The masterpiece of perfection in a Rose." Color, silvery white, with porcelain shadings. Very distinct—flowers enormous size with high pointed center—a model for exhibition purposes. Price, 1-yr. 20c each; 2-yr. 60c; 3-yr. 90c.

**ETOILE DE FRANCE** — A brilliant shade of velvety crimson. Very striking. Flowers are extremely large on long, but stiff stems—unexcelled for cutting. Price, 1-yr. 20c each; 2-yr. 60c; 3-yr. 90c.

**KAISERIN AUGUSTA VICTORIA** — The best white Rose in the world. It is a continuous bloomer; shows no center when fully open, color snowy-white. Price, 1-yr. 20c; 2-yr. 60c; 3-yr. 90c each.

**MAD. COLETTE MARTINETTE** — Color beautiful coppery orange, buds opening cup shaped and fragrant. The blooms are large, borne on good stems; the distinctness of the variety pleasing all Rose lovers. Price, 1-yr. 20c each; 2-yr. 60c each; 3-yr. 90c each.

**KILARNEY** — Remarkable for the size of its intensely fragrant flowers. Brilliant sparkling pink. Price, 1-yr. 25c each; 2-yr. 60c; 3-yr. 90c each.

**RHEA REID** — "The reddest of red Roses." Extra large; wonderful foliage; strong grower. Price, 20c each; 2-yr. 60c; 3-yr. 90c each.

**SUNBURST** — Very striking flowers of rich yellow, with orange center. Perfect both in bud and bloom. Price, 1-yr. 30c each; 2-yr. 60c; 3-yr. \$1.00 each.

**OPHELIA** — Salmon-flesh color, shaded with Rose. Large flowers, long stems, fine for cutting. Price, 1-yr. 30c each; 2-yr. 60c each; 3-yr. \$4.00 each.

**COLUMBIA** — It is a big Rose, the open flower measuring six inches across. Color, true pink, deepening as it opens to a glowing pink. Price, 30c each; 2-yr. 60c each; 3-yr. \$1.00 each.

## Hybrid Perpetual Roses

**HARDY EVERYWHERE**

**MADAME CHAS. WOOD** — There is hardly a day from early June until frost that this variety is without a show of large fragrant dazzling scarlet-crimson flowers—it blooms the summer through almost uninterrupted. Hardy as an oak. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.

**PAUL NEYRON** — The largest of all. A beautiful deep rose-pink color. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.

**GLOIRE BRUSSELS** — The nearest black Rose grown. Deep blackish - crimson with pronounced maroon shades. A different Rose. Each, 1-yr. 30c; 2-yr. 70c; 3-yr. \$1.25.



Rose White American Beauty (F. K. Druschki)



## Polyantha Roses

Will Bloom the Summer Through

**BABY DOLL**—Golden yellow, tipped with cerise. The "sweet-heart" Rose. Excellent for both summer and winter blooming. Price, 1-yr. 25c each; 2-yr. 70c each.

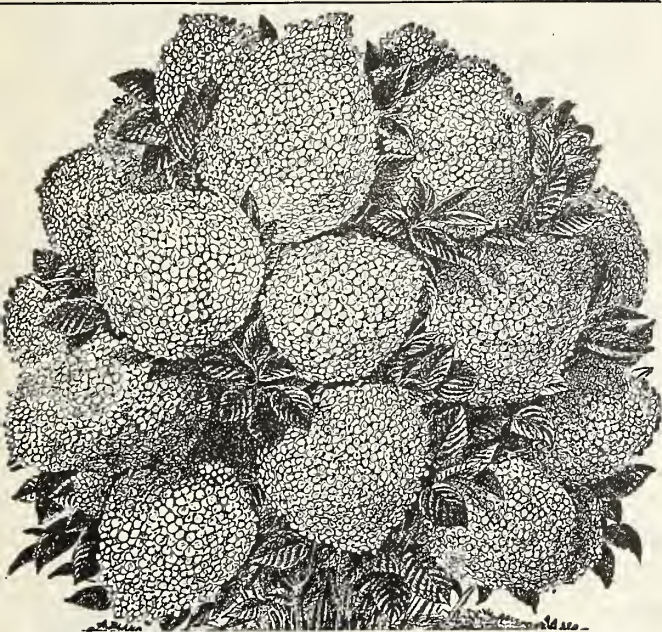
**ORLEANS**—Deep cerise or geranium pink, with center of pure white. Price, 1-yr. 25c each; 2-yr. 70c each.

**ELLEN POULSON**—Comparatively new. Rich dark pink flowers borne in profusion. A continued bloomer. Price, 1-yr. 25c each; 2-yr. 70c.

**GEORGE ELGER**—A lovely golden yellow polyantha. None better. Price, 25c each; 2-yr. 70c each.

**JESSIE**—Bright cherry crimson. Does not fade. Price, 1-yr. 25c each; 2-yr. 70c each.

**BABY RAMBLER**—It forms compact bushes, covered with clusters of rich cherry-red flowers throughout the season. Price, 1-yr. 25c each; 2-yr. 70c each.



Hardy Hydrangea Paniculata, admirably adapted for border or cemetery.

## Popular Hardy Shrubs

**HYDRANGEA PANICULATA**—Height from 4 to 8 feet; perfectly hardy in all parts of the country. White flowers, turning to pink, borne on immense pyramidal panicles nearly a foot in length from July until November. Price, 30c each; 3 for \$1.00; larger plants, 65c; extra large plants, \$1.00 and \$1.50 each.

**HYDRANGEA ARBORESCENS**—The foliage is almost hidden by beautiful sprays of immense pure snow-white blooms from early June through August. Will stand 20 degrees below zero. Unexcelled for shady place, but does equally well in open. Nice plants, 35c each; 3 for \$1.00; large plants, 60c each; extra large plants, \$1.00 and \$1.50 each.

**BRIDAL WREATH** (Spirea Van Houttei)—Beautiful foliage at all times and a fountain of arching snow-white blooms during May and June. Very popular. 35c each; 3 for \$1.00; \$3.50 per dozen; larger plants 60c; extra heavy plants \$1.00 and \$1.50 each.

**PINK BUSH HONEYSUCKLE**—Highly ornamental. Beautiful blooms in spring followed by bright, shiny berries. 50c each.

**SNOWBALL BUSH**—An old-time favorite. Pure white flowers in dense clusters which look like balls of snow; very attractive. 30c each; large plants, 65c and \$1.00 each.

**GOLDEN BELLS** (Forsythia Fortunei)—The first shrub to bloom in the spring, the pendant golden bells appearing before the leaves. 30c each; large plants, 75c each.

**ALBA SNOWBERRY**—Grows 3 to 5 feet. Flowers pure white or pinkish. Berries white, produced in clusters. Field grown plants, 35c each; 3 for \$1.00; per dozen, \$3.36. Larger plants, 60c each; 3 for \$1.45; per dozen, \$4.80. Extra large plants by express only, 75c each; 3 for \$2.14; per dozen, \$7.20.

**RUBRA** (Indian Currant)—Grand shrub, red or purplish berries. Bright green leaves, tinged reddish purple. Flowers greenish red, all summer. Berries early in autumn. Large plants, 60c each; 3 for \$1.43; \$4.80 per dozen. Extra large plants, 75c each; 3 for \$2.14; \$7.20 per dozen.

**YARD PLANTING OFFER**—One each of the following seven shrubs for \$1.48; large plants, by express, \$3.42. Bridal Wreath, Weigela Rosca, Summer Lilac (Buddleia), Snowball, Spirea Billardi, Hydrangea Paniculata, Althea. These seven shrubs will give a succession of flowers from April until frost, flowering in the order named.



## Hardy Hedge Plants

**JAPAN BARBERRY**—Valuable as specimen plants or for hedges. Drooping yellow flowers followed by bright red berries. Foliage changes to fiery crimson in autumn. This variety, unlike the common Barberry does not harbor wheat rust and is entirely harmless to grain crops. 25c each; 3 for 72c; 12 for \$2.40. \$10.00 per 100. Large size, 35c each; 3 for \$1.00; \$3.50 per dozen. \$17.50 per 100.

**CALIFORNIA PRIVET**—Cheaper than fences, far more beautiful. The most popular ornamental hedge plant. Price, by express, nice plants, 68c per dozen; \$5.00 per 100 (25 and 50 at 100 rate). Hedge plants are set 6 inches apart, viz.: a 50 ft. hedge required 100 plants.

**IBOTA PRIVET**—Perfectly hardy. Trim as desired. Price, 96c per dozen; \$15.00 per 100. Large, 2-yr. plants, \$20.00 per 100.

## Deutzias

Prices: Any Variety, 30c each; large plants, 75c.

**CRENATA ROSEA PLENA**—Beautiful pink flowers.

**ALBA**—Excels all others in size of flower, pure white.

**CANDIDISSIMA**—Pure white, double flowers.

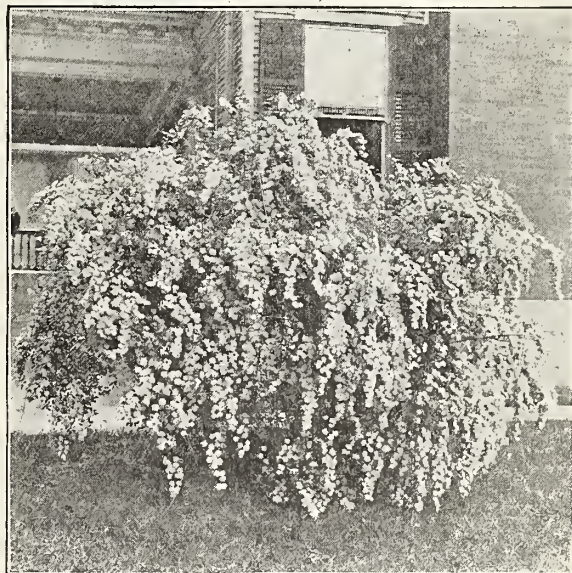
## Althea--Rose of Sharon

Flower profusely during July and August. Grow 6 to 8 feet. Price: Any variety, 40c each; 3 for \$1.10; extra large plants, 75c each.

**BOULE DE FEU**—The prettiest double red; commendable.

**JEAN DE ARC**—The pure white Althea, double; for cemetery.

**CERULEAN BLUE**—Double blue; extra fine.



Spirea Van Houttei (Bridal Wreath). Not excelled by any shrub grown; exceptionally graceful in growth, wonderfully striking in power.

**MOCK ORANGE** (Philadelphus)—An old favorite. Flowers cup shaped, very fragrant, and pure white. 35c each; large plants, 65c.

**SWEET-SCENTED SHRUB**—The flowers when fully open are about the size of a silver dollar, of a mahogany brown color. Strawberry scented. Should be in every planting. 30c each; extra large plants, 75c and \$1.00 each.





BUTTERFLY BUSH.

Butterfly Bush (Summer Lilac).

## Popular Begonias

**KING OF REX**—In no other class of plants do we find the rich metallic foliage, and colors blending from brightest green, silver and orange to a bright plum color as are found here. Mammoth leaves. Nice plants, 45c each; 3 for \$1.20.

**BEGONIA THURSTONII**—Flowers are a deep pink in bud, but when fully expanded become a beautiful shell pink. Red foliage. 30c each.

**CAROLINE LUCERNE**—Bright coral red, changing to delicate pink. 30c each.

**BEEFSTEAK BEGONIA**—The true variety. We have been very fortunate in securing a stock of this plant. Spreading habit, circular leaves of heavy texture, red beneath, above a glossy olive-green, with an oil-like cast; flowers coral. We cannot state when we will be able to offer this beautiful Begonia again. 35c each; 3 for \$1.00.

## Beautiful Decorative Ferns

**BOSTON FERN**—For large specimen plants or for hanging baskets the Boston Fern takes the lead. Drooping fronds often six feet in length. A Fern that looks well anywhere. Each 25c; stronger plants, 50c; larger plants, \$1.00.

**OSTRICH PLUME FERN** (*Nephrolepis Whitmanii*)—No words can describe this Fern better than its name, because of the waxy, plume-like appearance of the fronds which are often 8 inches wide. Upright and stocky growth. Each 25c; stronger plants, 60c; large plants, \$1.00.

**NEWPORT PARLOR FERN**—Resembles the Boston, excepting that it has a more finished appearance, shorter fronds, and three times as many of them. Each 30c; stronger plants, 50c; large plants, \$1.00.

**HARDY FERN**—For shady places. Can be left outside during winter, and in the spring it starts a new growth like Peony and Phlox. A graceful plant with fronds equal to those of any of the tender varieties. Requires rich soil; shady, moist position; good drainage. Each 45c; 3 for \$1.20; per dozen, \$4.50 large size, 65c each; 3 for \$1.75.

**FERNS FOR FERN DISHES**—We will send to any address in the United States, postpaid, 6 Ferns, all different, including Crested Fern, Striped Silver, Maiden Hair, etc., for \$1.00; 9 Ferns for large dish for \$1.35.

**FEATHER FERN**—The foliage is composed of dense, glossy-green, graceful drooping branches. Can be grown as a vase, pot, or tub plant. Sprays four to five feet long. 30c each; larger plants, 50c and 75c.

**LACE FERN** (*Asparagus Plumosus*)—Its bright green foliage is extremely fine and plume-like. Makes a fine pot plant for the house or porch. By many florists it is used instead of Smilax, as it is more easily grown and far more beautiful. Nice plants, 30c each; larger plants, 50c and 75c each.



Major Bonnaffon

## Cutflower Chrysanthemums

**ROMAN GOLD**—An evenly colored, globular yellow. When well cultivated and cared for, the blooms are from 6 to 8 inches in diameter. Price, 20c each; 3 for 57c; 12 for \$1.92.

**RAGGED ROBIN**—An immense sparkling pink variety. Price, 20c each; 3 for 57c; 12 for \$1.92.

**FIRE BALL** (Latest Introduction)—Color, deep blood red. Height 4 feet. Price, 20c each; 3 for 57c; 12 for \$1.92.

**CRIMSON TANGLE** (Red Ostrich Plume)—A very striking crimson-red plumed variety. Price, 25c each; 3 for 72c; 12 for \$2.40.

**WHITE OSTRICH PLUME**—Pure white flowers; heavily plumed. Price, 20c each; 3 for 57c; 12 for \$1.92.

**RICHMOND**—Perfect fullness; silk-like finish; bright golden yellow. A prize winner at the shows. 25c each; 3 for 72c; 12 for \$2.40.

**MAJOR BONNAFFON**—Soft, clear yellow, full to center, often 8 inches in diameter. Price, 20c each; 3 for 57c; 12 for \$1.92.

**CHIEFTIAN**—Rose-pink, globular, incurved—everyone like it. Price, 20c each; 3 for 57c; 12 for \$1.92.

**WHITE BONNAFFON**—Finest of early whites. Large and full. Sometimes tinted pearl. Price, 20c each; 3 for 57c; 12 for \$1.92.

**DOLLY DIMPLE**—Glowing yellow. Considered by many the Queen of all Chrysanthemums. Fine for pot culture. Price, 20c each; 3 for 57c; 12 for \$1.92.

**SPECIAL OFFER**—1 each of above 10 Exhibition Chrysanthemums, postpaid, \$1.75.

## Everblooming Butterfly Bush

It produces long stems which terminate in panicles of beautiful lilac-colored flowers, attracting hundreds of butterflies. Will throw out as many as fifty flower spikes the first season planted, increasing in number during succeeding years. Flowers from June until frost. Top should be cut off quite close to ground every spring. 30c each; 3 for 85c; large plants, 75c.

**GOLDEN LEAVED SYRINGA** (*Philadelphus-Mock Orange*)—The best golden leaved shrub. Valuable for contrastive grouping. 30c each; extra large plants, 75c and \$1.00 each.

**WEIGELA ROSEA**—One of the most conspicuous shrubs that we cultivate; flowers pink, dwarf, adapted to lawns or gardens. 35c each; large plants, 65c and \$1.00 each.

**GOLDEN ELDERS**—Golden foliage, blossoms and fruit like common elder. Fruit is prized for pies and wine. 30c each; 3 for 85c; larger plants, 60c each.

**JAPAN QUINCE**—Dwarf, quite hardy, showy shrub followed by waxy-white fruit. 35c each; 3 for \$1.00; larger plants, 75c each.

**SPIREA ANTHONY WATERER**—Begins to bear flat clusters of rosy-red flowers early in spring and continues in bloom until late in autumn. 30c each; large plants, 65c.

**PURPLE LILAC**—An old-time favorite that will always remain popular. Flowers fragrant. 50c each; 3 for \$1.43.

**WHITE LILAC**—Identical with the purple variety excepting that the flowers are white. 50c each; 3 for \$1.43.

## Perennial Plants

**BABY'S BREATH**—Hardy. A mass of minute pure white flowers. Very dainty. 30c each.

**ACHILLEA** (Cemetery Plant)—Snow-white flowers produced in large sprays. Fine for cemetery planting. Hardy. 25c each.

**CAMPANULA** (Canterbury Bells)—Hardy. Flower from May until September. Cup-shaped flowers. Colors: Blue, pink, crimson and white. 25c each; 3 for 72c.

**SWEET WILLIAM**—Hardy. Beautifully marked blooms of extremely rich and varied colors. 25c each; 3 for 72c.

**FOXGLOVE** (*Digitalis*)—Hardy. Bears thimble-shaped flowers on large spikes. Always satisfactory. 25c each.

**LONG SPURRED COLUMBINE** (Larkspur)—Hardy. Graceful flowers freely produced on long stems. We offer an extra fine long spurred strain. Mixed colors only. 25c each; 3 for 72c.

**DOUBLE HOLLYHOCKS**—Hardy. Straight towering spikes a mass of waxy flowers. Select from colors: White, maroon, pink, red and yellow. 25c each; 3 for 72c; \$2.70 per dozen.

**DELPHINIUM** (Gold Medal Hybrids)—Hardy. The most attractive bold, and meritorious flower we have. The immense spikes of brilliant shades of blue produce the most striking effects in the flower garden. 35c each; \$3.60 per dozen.

**GIANT HARDY PRIMROSE**—Immense trusses of large flowers from purest white, yellow, and orange to crimson. 25c each.

**SHASTA DAISY**—Hardy. Pure white with gold center, petals very long and center soft and velvety. 20c each.

**HARDY ORIENTAL POPPY**—Enormous large flaming red flowers. Striking. 25c each; 3 for 72c.

**DOUBLE GOLDEN GLOW**—Hardy. Grows 8 ft. high. Exquisite double blossoms of brightest golden-yellow, as large as Cactus Dahlias. 25c each.



The Wonderful Ostrich Plume Fern, Whitmanii.



## Double Flowering Geraniums

Price, 20c each; 3 for 57c; 12 for \$1.92.

**S. A. NUTT**—The darkest red geranium grown. Deep, rich velvety maroon—sparkling shade that fairly dazzles the eye.

**MARGUIS DE MONTMORT**—Nearest we have to a blue Geranium, velvety purple.

**BERTHA DE PRESSILY**—A striking shade of mauve-rose with blotches of white at base of petals.

**LEOPOLD BOUVILLE**—Bright, solferino-red, richly shaded bright carmine-red, purple to distinct white center.

**JEAN VIARD**—Rosy pink; free flowering.

**BUCHNER**—Bushy plants with white flowers.

**MRS. LAWRENCE**—A satiny salmon pink.

**ALPHONSE RICARD**—Brilliant orange red.

**JEAN OBERLE**—Large flowers of peach pink.



Climbing Fire Cracker Plant

## Single & Double Sweet-Scented Violets

**PRINCESS OF WALES**—This variety is far ahead of any other single violet known. The grand single flowers of a true violet-blue color that does not fade, and of the richest, most delicious fragrance. Price, 22c each; 3 for 63c; \$2.10 per dozen.

**STANLEY WHITE**—A sort of Marie Louise, the same growth, the same freedom of flowers, the same perfect perfume, and the individual flower equally as large and of the purest white. Price, 22c each; 3 for 63c; \$2.10 per dozen.

**VIOLET MARIE LOUISE**—Bold, fine flowers, very fragrant and very prolific. The color is of a dark blue; flowers double. This is the favorite double or blue Violet that you see in the florists' windows. Price, 22c each; 3 for 63c; \$2.10 per dozen.



Violet, Marie Louise

## Snake Plant

The ideal house plant, its thick, leathery, sword-like leaves standing the heat, dust and gas with impunity. Leaves are dark green in color, striped with white. Nice plants, 30c each; large plants, 60c.

## Weeping Lantana

A new weeping plant of great beauty. Graceful, drooping habit, grows very rapidly and blooms continually summer and winter, producing large clusters of flowers of lilac or rosy-pink. Easily grown. Strong plants, 22c each; 3 for 63c; \$2.10 per dozen.

## Wandering Jew

A wonderfully fast growing trailing vine; multi-colored foliage. 16c each; 3 for 46c.

## Hibiscus Peachblow

Flowers are double; of charming rich, clear pink color; an entirely new and most beautiful shade. Makes a fine plant for the house; easily grown. 25c each.

Snake Plant

## Best Fuchsias

Price, any variety, 24c each; 3 for 68c; 12 for \$2.30.

**PHENOMENAL**—Bright scarlet flowers with rich purple corolla; very double.

**WAVE OF LIFE**—Golden foliage, flowers dark purple, single.

**GLOIRE DES MARCHES**—Double deep scarlet and white.

**AURORA BOREALIS**—The flowers are four inches or more in length; tube and sepals bright carmine.

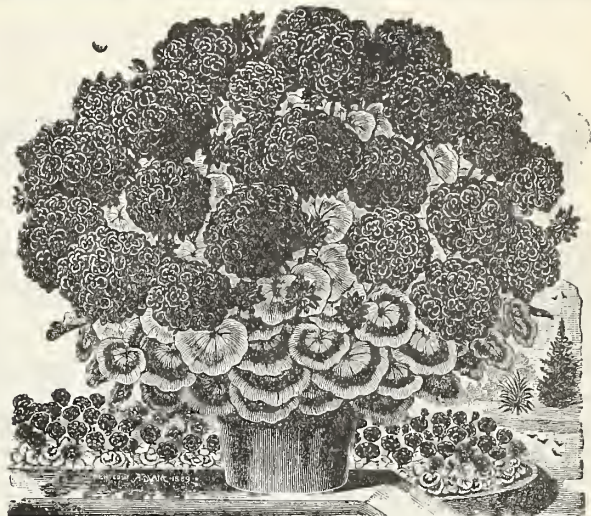
**BLACK PRINCE**—Very finest single Fuchsia. Flowers a harmonious blend of carmine-rose.

## Sweet Scented Carnations

**BEACON**—Rich crimson blooms average 3½ inches in diameter. Price, 25c each; 3 for 72c; 12 for \$2.40.

**GAIETY**—A grand variegated Carnation. Price, 25c each; 3 for 72c; 12 for \$2.40.

**WHITE WONDER**—Snow-white. Very fragrant. Price, 25c each; 3 for 72c; 12 for \$2.40.



S. A. Nutt, the Largest and Darkest Red Geranium Grown.

## Ivy-Leaved Geraniums

Dark, glossy, green foliage at all times.

Price, 20c each; 3 for 57c.

**JOAN OF ARC**—An easy grower. Double flowers of purest white. Excellent for winter flowering.

**CAESAR FRANCK**—Flowers a magnificent shade of soft rich crimson.

**ALLIANCE**—Exquisite shade of delicate lilac-white; upper petals feathered and blotched crimson-rose. The leading Ivy-leaved variety.

## SWEET-SCENTED GERANIUMS

Extensively grown for their fragrant foliage. Price, 20c each; 3 for 57c.

**LEMON SCENTED**—The foliage has a pronounced lemon scent.

**LADY MARY**—Pleasing nutmeg fragrance; lilac flowers.

**ROSE SCENTED**—The most fragrant of all. Beautiful flowers.



Hibiscus Peachblow

**AMERICAN WONDER LEMON**—Fruit often weighs over 3 pounds. Excellent for lemonade, pies, etc. Blooms very sweetly scented. Bears fruit at all stages of growth. Can be grown anywhere. 25c each; large plants, 75c and \$1.50.

**NEW COLEUS CHRISTMAS GEM**—Leaves bright carmine, shading off to deep maroon, the margin being yellow and green, the whole leaf having a rich velvety lustre. Leaves sometimes over 12 inches long. 25c each; 3 for 72c.

**UMBRELLA PLANT**—A large specimen as handsome as a Palm for decoration. It throws up stems about two feet high, surmounted with a whorl of leaves, diverging horizontally. Grows luxuriantly in water, and is therefore indispensable for aquariums or fountains. 24c each; 3 for 68c.

**DWARF ORANGE**—A true orange bearing masses of waxy-white fragrant blossoms followed by bright colored very sweet fruit. Plants bloom and bear fruit when only five or six inches high. Nice plants, 30c each; large plants, 75c and \$1.50 each.

**HELIOTROPE MIDNIGHT**—This new variety is the result of efforts made by our most expert plant growers to improve the Heliotrope. Size of flowers and flowers is doubled and the plant is compact and bushy, flowering heads sometimes measuring 16 inches across. 24c each; 3 for 68c.

**DOUBLE FRINGED AND FRILLED PETUNIAS**—Popular lower—colors, purple, lavender, white, variegated, purple streaked and mottled white. Price, 25c each; 3 for 70c.



Rex Begonia  
See page 42.





Hardy Garden Phlox Pantheon

## Fleur-de-Lis—Flag Iris

**INNOCENZA**—Pure white, delicate flower bright golden yellow crest. Price, 35c each; 3 for \$1.00.

**HER MAJESTY**—Semi-early, bright pink slight lilac tint, free flowering. Price, 35c each; 3 for \$1.00.

**MES NEWBRONNER**—Semi-early, deep golden-yellow. Price 50c each; 3 for \$1.43.

**LORELY**—Lemon yellow and velvety purple, striped on yellowish-white. Price, 35c each; 3 for \$1.43.

**JACQUESIANA**—Velvety reddish-violet, brightening at base with gold. Price, 40c each; 3 for \$1.14.

**PALLIDA DALMATICA**—Beautiful silvery-lavender, large flowers, sweet scented. Price, 30c each.

**LEDA**—White frilled and dotted rose-lilac. Price, 50c each; 3 for \$1.43.

**KING**—Old gold and bronze, slight crimson bordered with gold. Price, 50c each; 3 for \$1.43.

**WYOMISSING**—Deep rose base, shading to flesh-colored border. Exquisite coloring. Price, 75c each.

**MME. CHEREAU**—White, with lavender cast. Price, 20c each; 3 for 57c.

**PERFECTION**—Exquisite soft rosy-violet. Price, 50c each; 3 for \$1.43.

**ATROPURPUREA**—Royal purple; without slightest shading. Price, 50c each; 3 for \$1.43.

**ISOLINE**—A beautiful lilac-pink Iris. Flowers large. New. 60c each.

**LOHENGRIIN**—Tall flowers, very large, soft lilac-rose. 30c each.

**SPECIAL OFFER**—Six assorted Iris Plants, all different, our selection of varieties, good strong plants, postpaid, 75c; 12 plants, \$1.40.

## Gorgeous Flowering Peonies

**FESTIVA MAXIMA**—The largest Peony grown. Very broad petals. Pure white center usually flecked crimson; outer petals sometimes pale-lilac white on first opening. Early. Price, 85c each; 3 for \$2.35; per dozen \$8.00.

**MABIE LEMOINE**—Large, very compact, rose type. Sulphurish cream-white, occasionally flecked carmine. Fragrant. Very late. Price, \$2.25 each; 3 for \$3.45; per dozen \$11.50.

**PRESIDENT TAFT**—Distinct and beautiful. A beautiful shade of pink, with bright rose stripes on the petals. A marvelous flower. Price, \$2.00 each; 3 for \$5.25; per dozen \$19.00.

**FELIX CROUSSE**—Very full, large, globular, bomb. Very brilliant red. Fragrant. One of the best reds. Price, \$2.25 each; 3 for \$3.45; per dozen \$11.50.

**EDULIS SUPERBA**—Large, loose, flat crown. Bright mauve-pink with silvery reflex. Fragrant. Strong, upright and free. Early. This is one of the most valuable Peonies grown. It seldom fails to be in full bloom for Decoration Day. Price, 80c each; 3 for \$2.20; per dozen \$7.50.

**SPECIAL OFFER**—For those who do not care for the most expensive fancy named Peonies we offer from surplus stock, three Peonies: red, white and pink, our selection of varieties, for \$1.34.

## Hardy Garden Phlox

Flower heads often measure from 7 to 9 inches across, borne from early summer until frost. They grow vigorously—increasing in size from year to year, and make very attractive plantings along walks or in clusters. Price, any of the following varieties, 35c each; 3 for \$1.00; \$3.60 per dozen.

**BRIDESMAID**—Massive white heads having a large crimson-carmine center. One of the most attractive of the varieties.

**PANTHEON**—A variety being medium in height. Color bright salmon-pink, with lighter shadings and dark crimson eye.

**ELIZABETH CAMPBELL**—Bright salmon-pink with lighter shadings and dark crimson eye.

**VON LASSBURG**—Purest white in cultivation. Largest of whites.

**RYNSTROM**—Color beautiful rose. An excellent bedding or massing flower.

**R. P. STRUTHERS**—Rosy carmine with claret-red eye.

**INDIAN CHIEF**—Clear purple red; rich shade. Fine for rockeries.

**MISS LINGARD**—The favorite white flowering variety, coming into bloom early in May, flowering throughout the season.

**OBERGARTNER WITTIG**—The color of this attractive Phlox is bright magenta, with crimson-carmine eye.

**ATHIS**—Lively shade of deep pink, and a light halo around its analine-red eye.

**VON HOCHBERG**—The best of all dark colored Phlox. Color solid rich velvety crimson.

**B. COMPTE**—Brilliant French purple, with crimson carmine shading.

**COQUELICOT**—The finest and brightest red of all the Phlox. The color is a bright orange-scarlet.

**ETNA**—Crimson, with cherry-red eye.

**HODUR**—Pink, shaded white.

**ISABEY**—Salmon-pink; flowering heads are immense.

**LE MAHDI**—Deep, velvety purple, large spikes.

**LOTHAIR**—Bright crimson.

**MRS. JENKINS**—Flowers large, pure white; early; free bloomer.

**SIEBOLD**—Orange-scarlet, crimson center.

**TERRE HEUVA**—Lavender, light center.

**WM. EGAN**—One of the finest Phlox. Delicate lilac color, with large bright solferino eye.

**THOR**—A beautiful shade of salmon pink, overlaid with a scarlet glow. White halo around the red eye.

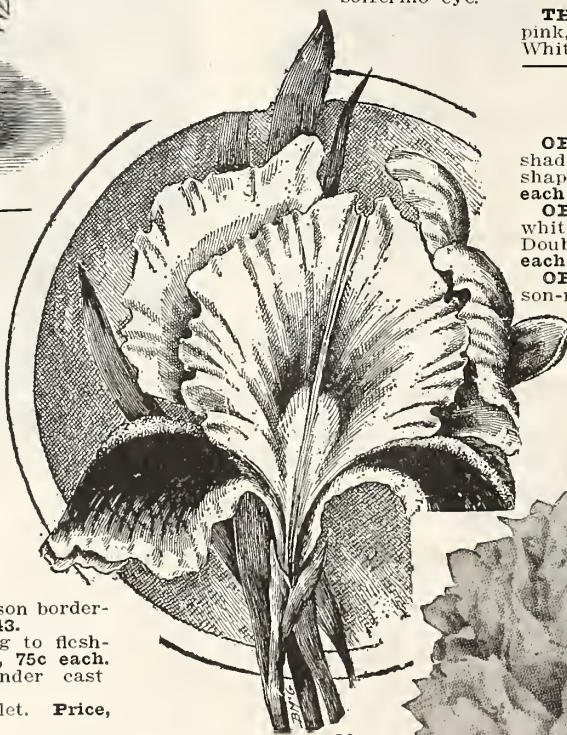
## OLD-FASHIONED GARDEN PEONIES

**OFFICIALIS ROSEA**—A lovely shade of cerise pink. Flowers perfect in shape, and very sweetly scented. \$1.00 each; 3 for \$2.70.

**OFFICIALIS ALBA**—The snow-white Peony of the old-fashioned garden. Double finely finished flowers. \$1.00 each; 3 for \$2.70.

**OFFICIALIS RUBRA**—Deep crimson-red flowers rich in fragrance. Always in demand for decorative purposes. \$1.00 each; 3 for \$2.70.

**SPECIAL OFFER**—One each of the above described—Old-Fashioned Peonies, red, white and pink for \$2.50.



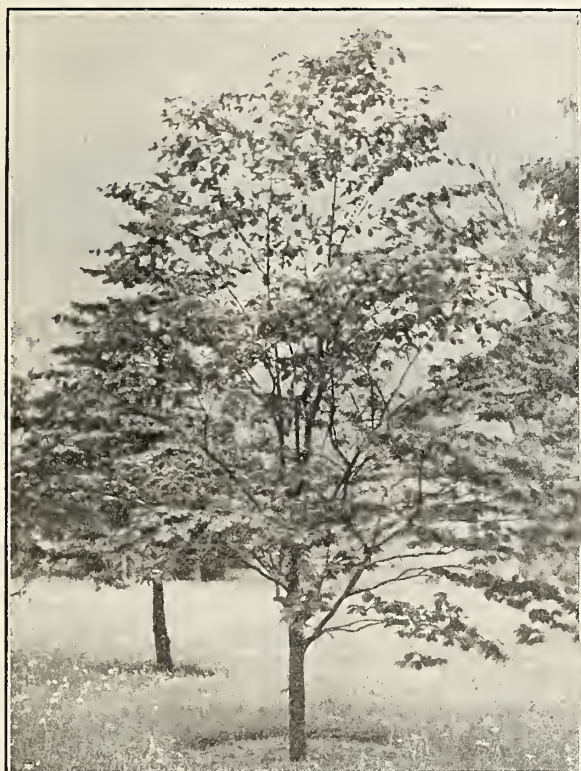
**FESTIVA  
MAXIMA**



Write for Prices on Larger  
Quantities.

## NURSERY DEPARTMENT

Sent via Express or Freight  
Only.



### Shade Trees

- Norway Maples—8-10 ft., \$1.75; 10-12 ft., \$2.50.  
Silver Maples—10-12 ft., \$2.00.  
Catalpa Bungei—grafted—6-8 ft., \$3.00.  
Poplar, Carolina—10-12 ft., \$2.00.  
Poplar, Lombardy—8-10 ft., \$1.50.  
Teas Weeping Mulberries—5-6 ft., \$3.00.  
Weeping Willows—5-6 ft., \$1.50.  
Betula Alba, or White Birch—8-10 ft., \$2.00.  
American Lindens—8-10 ft., \$2.00.  
Japanese Maple—Blood Leaf—2-3 ft., \$3.00.  
Cornus Rubra, or Red Dogwood—2-3 ft., \$4.00.  
Cornus Florida, or White Dogwood—3-4 ft., \$2.00.  
Oriental Plane—10-12 ft., \$2.00.  
American Elm—10-12 ft., \$2.00.  
Sycamore—10-12 ft., \$1.75.  
Tulip Tree—8-10 ft., \$1.75.

### Evergreen Shrubs and Trees

#### SELECTION OF M. & S. EVERGREENS

Arborvitae American, Firs, Balsam and Nordmans. Junipers, Yews and Japanese. Pine, White, Scotch and Austrian. Retinosporas, Plumosa and Plumosa Aurea. Squorasa Veitchii, Spruce, Norway, Colorado Blue. Yew, Drupacea and Fortunis Boxwood. Small trees from \$1.50 to \$2.50. Larger trees, price as to size and variety.

### Best Books for Gardener and Professional

Garden Guide Paper \$1.00. Cloth.....	\$1.50
Milady's House Plants 75c. Cloth.....	1.00
Carnation Culture Cloth .....	1.75
Violet Culture Cloth .....	1.75
Sweet Peas for Profit, Cloth.....	1.75
Rose Culture, Cloth.....	1.75
Plant Culture, Cloth .....	3.50
Johnson's Gardener's Dictionary, Cloth.....	6.50
Practical Landscape Gardening, Cloth.....	2.50
Home Fruit Grower. Paper \$1.00, Cloth.....	1.50
Practical Plant Propagation Cloth.....	2.00
Manual of Floral Designing, Cloth.....	1.50

#### TREE SPRAYING, TRIMMING, ETC.

We are now in position to estimate on and execute work like ornamental tree work, tree surgery, pruning, spraying for insects and fungi diseases, cavity treatment by filling with sectional cement, the treatment of split and weak crotches and limbs by bolting and chains, and cultural treatment.

### Apples

**Baldwin**—Large, roundish; deep bright red; very productive; handsome fruit.

**Ben Davis**—Large, handsome, striped; productive; a late keeper.

**Grimes' Golden (Grimes' Golden Pippin)**—Of the highest quality; deep golden yellow, aromatic, spicy and rich. Tree vigorous and productive.

**Maiden's Blush**—Rather large and smooth, evenly shaded red or blush on a clear, pale yellow ground; with a pleasant flavor.

**Wine Sap**—Medium size, dark red; of rich flavor, very productive; late.

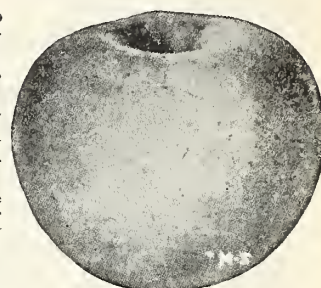
**Red Astrachan**—Large, roundish, deep crimson, overspread with a thick bloom; juicy, rich, acid, very productive.

**Rhode Island Greening**—Large, greenish-yellow; tender, juicy and rich, with rather an acid flavor; an abundant bearer.

**Smokehouse**—Roundish oblate; yellow, shaded and striped with bright red; flesh yellowish; very productive.

Any of the above in 6 to 8 ft. trees, \$1.50 each; four-year-old trees, \$2.50 each.

We can also supply all other varieties, also Crab Apples.



### Cherries

**Black Tartarian Cherry**—Very large, purplish black; half tender; flavor mild and pleasant. Tree a remarkably vigorous, erect and beautiful grower, and an immense bearer. Ripe last of June and beginning of July.

**Governor Wood**—Yellow; Florence, Red; English Murillo, red tart and other leading varieties. \$2.00 each.

### Currants

#### (Extra Strong Plants)

Currants like good rich soil. They are particularly susceptible to scale, and steps should be taken to keep them from this by liberal spraying, when the bushes are dormant.

**Black Naples**—Fruit varies from small to large, averaging above medium; strong flavor. An old and well-known variety.

**Cherry**—Bush vigorous, stocky and compact; cluster rather short, with short stems; fruit averages large; color fine, bright red.

**Fay's Prolific**—Not quite so strong a grower as Cherry; cluster medium to long, with rather long stems; color darker than Cherry.

**White Grape**—Clusters long; berries very large; of very attractive color; mild flavor and good quality.

All the above, 60 each; \$5.50 dozen.



Black Tartarian Cherries

### Gooseberries, Blackberries, Logan Berries

Gooseberries should be cultivated during the growing season and fertilized with manure in the early Spring or late Fall. They will repay you for this trouble with an extra big crop.

**Downing**—Fruit medium to large, whitish green; flesh soft, juicy. Each, 60c; \$5.50 doz.

**Houghton**—Bush a vigorous grower, with rather slender branches; very productive. Fruit medium size, pale, red, tender and good. 60c each; \$5.50 doz.

**CULTIVATED BLACKBERRIES**—Popular varieties, 25c each; \$2.00 dozen.

**LOGAN BERRIES**—30c each; \$3.00 dozen.



**SPRAYING TREES, TRIMMING, ETC.**

We are now in position to estimate on and execute work like ornamental tree work, tree surgery, pruning, spraying for insects and fungi diseases, cavity treatment by filling with sectional cement the treatment of split and weak crotches and limbs by bolting and chains, and cultural treatment.

## Grape Vines

**Concord**—The well-known standard purple variety.

**Delaware**—Bunches and berries rather small; light red; juicy.

**Catawba**—Delicious flavor; medium size red berry.

**Niagara**—Berries large, light greenish-white. Also most all popular varieties.

Any of the above, 50c each Two-year-old stock, \$5.00 doz.

**GRAPE PROTECTING BAGS**—See Page 62.

## Cultivated Raspberries

(Extra Strong Plants)

Raspberries should be carefully staked to get large crops. We recommend that well-rotted manure or other suitable fertilizer be dug around the bushes, either in the Fall or early Spring.

**Brilliant**—Ripens its fruit early and fast, producing bright, glossy, brilliant red berries, handsome. 30c each; \$2.50 dozen.

**Cuthbert**—Berries very large, measuring 3 inches around; conical; rich crimson. 30c each; \$2.50 dozen.

**Columbian**—Fruit very large, often an inch in diameter; color dark red, bordering on purple. 30c each; \$2.50 dozen.

**St. Regis**—Everbearing Raspberries. They yield their first crop of berries in June (the regular season), and yields an equally heavy crop the latter part of August, and continues bearing right up to November. 25c each; \$2.00 dozen.

**To HAVE FRUIT TREES IN PERFECT CONDITION, SPRAY 3 TO 4 TIMES EACH YEAR.**



## Peaches

Trees such as we furnish will often bear the year after they have been set out.

**Crawford's Early**—The best yellow peach; large, oblong; skin yellow, with fine red cheek; juicy; wonderfully productive.

**Crawford's Late**—Fruit of the largest size; skin greenish-yellow, with dull red cheek; flesh yellow; one of the finest late sorts.

**Elberta**—Large, yellow, with red cheek; flesh yellow; firm, juicy, of high quality. Follows Early Crawford.

**Mountain Rose**—The largest early peach. White, with red cheek; rich and very good; productive and reliable. Freestone.

**Oldmixon Free**—Uniformly large; white, covered with bright red; one of the best.

**Extra Strong Trees**, 5 to 6 feet high, \$1.25 each. We can also supply all other varieties.

## Pears

**Bartlett**—Large size, with a beautiful blush; buttery, very juicy; bears early and abundantly.

**Flemish Beauty**—Large, beautiful, juicy, melting; good bearer.

**Howell**—Large, light, waxon yellow, with a fine, red cheek; handsome, rich, aromatic flavor. An early and profuse bearer.

**Keiffer**—While not of the best quality, properly ripened it is the very best for canning and preserving.



**Lawrence**—Fruit medium, canary-yellow sweet, good keeper.

**Le Conte**—Very large, greenish-yellow, handsome; juicy. Early.

**Rossney**—A large variety of rare merit; ripening in September.

**Worden-Seckel**—A seedling of the Seckel. Equal in quality to its famous parent, but larger; fruit keeps well.

Any of the above extra strong trees, 5 to 7 feet high, \$1.75 each. We can also supply all other varieties.



## Plums

**Abundance**—The fruit is very large, showy, and beautiful. Amber, turning to a rich, bright cherry color. Ripens in August.

**Burbank**—Medium to rather large, conical in form; orange-yellow, overlaid with red; flesh firm, meaty yellow.

**Red June (Japan)**—Vigorous and early; fruit medium to large, deep vermilion-red; very showy; flesh light lemon-yellow.

**Sultan**—Very large in size, deep purplish-crimson in color; flesh very firm, dark crimson shaded with pink.

**Wickson**—Fruit large, obconical, dark crimson-purple; flesh very firm, highly flavored; pit small. An excellent keeper.

**Wild Goose**—Large, rich, crimson; productive and profitable.

**Extra Strong Trees**, 5 to 6 feet high, \$1.75 each.

Quinces, Apricots and other fruit trees, as well as nut trees, can be furnished promptly at reasonable prices for Reliable Stock. Write for prices.

## Strawberry Plants

Ready from April 1st to May 15th, and from September 1st to November 15th.

**Early Varieties**—Senator Dunlap, Early Jersey Giant, Excelsior, Superior, Klondyke, etc.

**Mid-Season Varieties**—Nick Ohmer, William Belt, Marshall, New York, Tennessee, Prolific, Glen Mary, Magic Gem, etc.

**Late Season Varieties**—Gandy, Chesapeake, Chester, Aroma Stevens, Late Champion, etc.

Price of any of the above, 50c doz.; 50, \$1.00; 100, \$1.75; 500, \$5.00; 1,000, \$8.50.

**Everbearing**—Superb and Progressive. 1 doz. 65c; 25, \$1.00; 50, \$1.50; 100, \$2.25; 500, \$7.00; 1,000, \$12.00.

Notice: Parcel Post prepaid on the two above. 500 and 1000 lots express collect.

**Pot-Grown Strawberry Plants**—Ready about August 1st. We grow the plants in pots, and when they are well established and ready to ship, turn them out of the pots, preserving the balls of earth around the roots and wrapping them in paper. In this way, during the hottest weather in July, August and September, plants can be transplanted safely and satisfactorily. Plants set out in August and September will yield a crop next season. We can furnish most all popular varieties. \$1.25 per doz.; 100, \$7.00.

Improved Varieties, \$1.75 doz.; 100, \$11.00. Everbearing, \$1.40 doz.; 100, \$9.00.

Gentlemen: All your Lawn Seed, as well as vegetable and flower seed have always given the best of results.

Yours truly,

CHAS. SPIELMAN,

General Garden Work, 19 Md. Ave., Westport, Md.



# FERTILIZERS AND PLANT FOODS

For the Farm, Garden, Lawn and House Plants

All Prices on Fertilizers Are Subject to Market Changes

Agents for OBER'S FERTILIZERS

**ASPARAGUS SALT**—Applied in spring 600 to 800 lbs. per acre, or destroying weeds. 56 lb. \$1.25; original sack, 140 lbs. \$2.25.

**BLOOD (DRIED)**—For indoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. 1 lb. 5c; 5 lb. 60c; \$1.00 per 10 lb.; 25 lbs. \$2.00; \$3.75 per 50 lbs.; 100 lbs. \$7.00; \$12.00 per 200 lbs.

**BONE MEAL (Ober's Pure Bone)**—Splendid article for building up wornout soil, lawns, etc. 1 lb. 6c; 10 lb. 50c; 25 lbs. \$1.25; 100 lbs. \$3.25; 200 lbs. \$6.00; ton, \$48.00.

**BONE MEAL (Ober's Special Grade Raw)**—Unusually rich in nitrogen and phosphoric acid, the two principal plant foods. Does not burn. We recommend this especially for greenhouses or any purpose where a high-class slow acting fertilizer counts. 1 lb. 6c; 10 lbs. 50c; \$1.25 for 25 lbs.; \$3.50 per 100 lbs.; 200 lbs. \$6.50; ton, \$52.00.

**COW OR CATTLE MANURE (Shredded)**—Convenient to handle, making it possible for everyone to get this usually scarce article at all times. This is where you get a wagon load of manure in a 100 lb. Bag. 6c lb.; 10 lbs. 50c; 25 lbs. \$1.25; 100 lbs. \$2.00; 100 lbs. \$3.25; 500 lbs. \$15.00; 1,000 lbs. \$29.00; ton, \$50.00.

**FLEURETTE**—A Liquid Plant Food. Makes strong and rapid growth. To be diluted with water as per directions. ½ pt. 5c; 1 pt. 40c; 1 qt. 75c. Not mailable.

**LAND PLASTER**—Used for top dressing newly plowed land prior to harrowing; also for sweetening the soil on lawns and elds. Apply 1,000 to 1,500 lbs. per acre. 40c for 10 lbs.; 25 lbs. 60c; \$1.00 for 50 lbs.; 100 lbs. \$1.75; \$3.25 for 200 lbs.

**LIME (Hydrated or Powdered)**—Promotes growth and gives the grass a rich color. Apply one ton per acre on fields, or ½ ton on lawns. 5 lbs. 20c; 10 lbs. 30c; 50 lbs. \$1.25; 100 lbs. \$2.25. on prices on application.

**MURIATE OF POTASH**—Apply 100 to 150 lbs. per acre, usually with other fertilizers. Excellent for potatoes, corn, grains, etc. Analysis, equal to 50 per cent. actual potash. Price on application.

**NITRATE OF SODA**—Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form dilute 2 ozs. to 1 gal. of water and do not apply oftener than twice a week. 1 lb. 15c; 50c per 5 lbs. Larger quantities on application.

**OBER'S STARKEY TRUCK COMPOUND 4-8-5**—The highest grade we have to offer. \$40.75 per ton; 167 lb. bag \$4.50.

**OBER'S SPECIAL PLANT FOOD 2-9-5**—The best fertilizer for general truck farming; such as cabbage, lettuce, spinach, etc. 1 lb. 6c; 25 lb. \$1.25; 50 lbs. \$2.00; 100 lbs. \$3.25; 167 lb. bag, \$4.50; ton \$34.00.

**OBER'S FARMERS' STANDARD HIGH GRADE ALL-AROUND 2-9-2**—For potatoes and general crop. Ton \$32.00; 167-lb. bag, \$4.00.

**OBER'S SOL. AMM. SUPER PHOS. OF LIME 2-8-2**—Ton, \$31.00; bag \$3.75.

**OBER'S SPECIAL TOBACCO BED 10-4-0**—Ton \$65.00; 167-lb. bag \$6.25.

**OBER'S GOLDEN SEAL TOBACCO GUANO 3-8-1**—Ton \$37.50; 167-lb. bag \$4.00.

**OBER'S FARMERS' MIXTURE FERTILIZER 1-9-2**—To be highly recommended for potatoes and vegetables. 167-lb. bag \$3.50; ton \$27.50.

**OBER'S INDEPENDENT 1-8-1**—A good all-around fertilizer. 167-lb. bag \$3.00; ton \$25.00.

**PHOSPHATE, HIGH-GRADE ACID TENNESSEE OR SOUTH CAROLINA ROCK**—16 per cent. Apply 1,000 lbs. per acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. Price \$16.50 ton; 167 lb. bag \$2.50.

**PREPARED FIBRE**—Grow your House Bulbs without soil, drainage or saucers. Highly recommended. 1 qt. 10c; 4 qts. 25c; k. 40c; bu. \$1.25. Parcel post weight, 14 lbs. per bushel.

**STERILIZED HUMUS (Leaf Mold)**—Fine for lawns, replanting and repotting. 4c lb.; 10 lb. 35c; 50 lb. \$1.50; 100 lb. \$2.50; 500 lb. \$10.00; 1,000 lb. \$18.50, last four sizes delivered. Ton and car load price on application.

**SHEEP MANURE**—Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use. This is where you get a whole cart load of manure in a 100 lb. bag at a much lower figure. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.00; 500 lbs. \$12.50; 1,000 lbs. \$24.00; per ton, \$45.

**STERLINGWORTH PLANT FOOD TABLETS**—1 tablet to 1 pint water. Price large size, 25c; trial size, 10c, postpaid.



## STIM-O-PLANT

An All-the-Year Fertilizer For Garden and House Plants

Growers of fine flowers, shrubs and vegetables for the best markets and for exhibition, fertilize and stimulate them frequently, a little at a time. An excellent fertilizer for this purpose is Stim-O-plant, an odorless, highly concentrated plant-food, in tablet form, with guaranteed chemical analysis of 11 per cent. nitrogen, 12 per cent. phosphoric acid, 15 per cent. potash. The proportions are accurate, there is no wasted filler, and in this form you apply plant-food exactly when and where and as needed. Simply insert tablets in soil near plants, or dissolve in water at the rate of four tablets to the gallon and apply as liquid manure. Complete directions with every package. Order Stim-U-plant tablets with your seed and plant order. Price, trial size, 15c; small size, 25c; 100 tablets, 75c; 1,000, \$3.50.

**TOBACCO STEMS**—For fumigating, mulching and fertilizing; an excellent top dressing for lawns in winter. 1 lb. 5c; 50 lbs. \$1.50; 100 lbs. \$2.50. Tobacco Dust, see page 48.

**VALLEY LIME MARL**—Guaranteed 90 per cent. lime carbonate. Quick and lasting top dresser for lawns, clover and alfalfa fields. Valley Lime Marl is just as essential to plant life as nitrogen, phosphoric acid and potash. It sweetens sour soil, will not burn the hands, clothing or the growing crops as caustic lime will. Shipped in 125 lb. burlap sacks. 1 lb. 5c; 10 lb. 30c; 50 lb. \$1.00; 125 lb. \$2.25; 500 lb. \$7.50; 1,000 lb. \$14.00 (last four sizes delivered). Ton and car load prices on application.



## White Rose Plant Food

Unequaled for Ferns, Palms, Flowers, Lawns and Gardens

A specially prepared high grade plant food containing 5 per cent. ammonia, 8 per cent. available phosphoric acid and 3 per cent. potash. Apply at the rate of 1 lb. for every 50 sq. ft. 1 lb. 25c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. \$2.50; 50 lbs. \$4.00; 100 lbs. \$6.50.



## SEED INOCULATION

Increases Crop Production and Greatly Improves the Soil

Crop and soil experts agree that for best growth, and to put atmospheric nitrogen in the soil, it will pay all farmers to inoculate all legumes, even where they are at present successfully grown. The cost is trivial when compared with the profit will bring you. Legumes are clovers, peas and beans, alfalfa, vetches, and other plants that grow their seeds in a pod. Their roots are the home of bacteria that draw fertility-building nitrogen from the air and store it in swellings on the roots, called nodules. These nodules not only feed nitrogen to the crop they are on, but rot away in the ground and supply valuable nitrogen to the soil for future crops.

The 1-A size bottle will inoculate: Clovers 15 lbs., alfalfa 20 lbs., Canada field peas 100 lbs., vetch 60 lbs., soy beans 75 lbs.;

other sizes in relative proportion. Place seed in a pile, fill bottle with water, add a little sugar, shake and moisten seeds; when dry, plant in usual way. This is infinitely easier, safer and better than the old laborious soil transfer method.

We have a special composite culture for garden peas, beans and sweet peas; ask for No. 5, 50 cts., and you will insure large, luscious peas and beans, and abundant sweet pea blossoms of wonderful coloring. Postpaid.

When ordering, be sure to specify the kind of seed you wish to inoculate. Prices: 1-acre size, \$1.00; 3-acre, \$2.50; 12-acre, \$9.00. Full directions accompany each bottle. We recommend that you use Farmogerm. Postpaid.







## HUDSON COMPRESSED AIR SPRAYERS

Are just the thing for general work around the house and yard, in the barnyard and outhouses, on truck farms, in vineyards, potato, onion and melon fields, and in all sizes of orchards. They are an easy and economical means of whitewashing, cold-water painting, disinfecting, deodorizing, removing old wall paper, moistening cores and floors in the foundry, treating cattle, sheep, hogs, etc. Guaranteed to give satisfaction.



The Perfection is built like a steam boiler, with all seams riveted and soldered to withstand high pressure and is tested under actual working conditions before it leaves the factory. Tank is either of heavy galvanized or brass sheets, capacity 4 gallons. Pump is brass, mounted inside the tank, and removed by hand for cleaning, inspection, etc. Nozzle is automatic and operates perfectly under all pressures. Packed for shipment in heavy fibre carton, shipping weight 11 pounds.

No. 110G—Perfection, Galvanized Tank. Price each .....\$6.50

No. 110B—Perfection, Brass Tank. Price each .....\$10.00

The Hudson Junior—Like above, but of 2½ gallon capacity. Weight 8 lbs.

No. 140G—Galvanized. Price .....\$5.25

### HUDSON BARREL PUMP

The Hudson Barrel Pump is adapted for any work requiring a high-pressure outfit. It may be used in the orchard and vineyard, in the truck garden, potato, onion or melon field, in the stock barn, cattle pen and chicken house, or for general work around the house and yard. It is strong and durable, and will easily maintain a working pressure of 200 pounds.

Cylinder is seamless brass. Valves are bronze balls in brass cages protected from sediment by a brass wire screen. Agitator is the swinging type, driven by each stroke of the plunger. Air chamber is high carbon steel, of ample capacity to maintain a uniform high pressure at the nozzle.

No. 4—Pump as shown. Shipping weight 40 pounds.

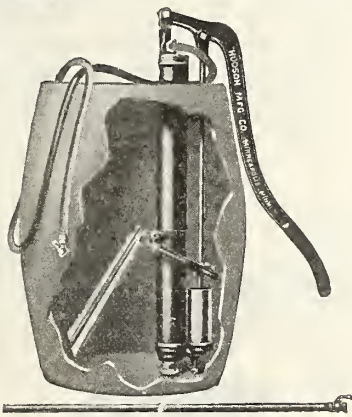
Price each .....\$10.00

No. 4A—Pump complete with 12½ feet of ½-inch spray hose and Ideal angle spray nozzle. Shipping weight 45 pounds. Price each .....\$14.00

No. 4B—Pump complete with barrel and discharge equipment. Price each .....\$31.40

No. 175—8 ft. iron pipe extension. Each .....\$1.20

No. 149—Leakless shut off. Each .....\$1.00



### MAGIC SPRAY PUMP

The Magic is a high pressure spray pump, especially desirable for whitewashing. The large air chamber enables the operator to maintain a high pressure and steady discharge, permitting a uniform spread of whitewash. Can be attached to an ordinary bucket or small tank, making a very convenient and portable outfit. All parts except the handle and foot-rest are brass, insuring longer life in operation. Intake and outlet valves and all nozzle parts can be easily removed for cleaning out lime or other sediment.

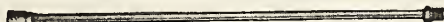
This pump is also very popular for use with stock dips and similar remedies, for garden work, washing buggies, autos, windows, etc., and in an emergency as a fire pump. Nozzle is adapted to all kinds of solutions and all classes of work. Will throw a solid stream when two-hole disc is removed.

Standard Package—One in heavy corrugated carton; shipping weight 6 pounds.

No. 124—Magic Spray Pump. Price each, \$5.40

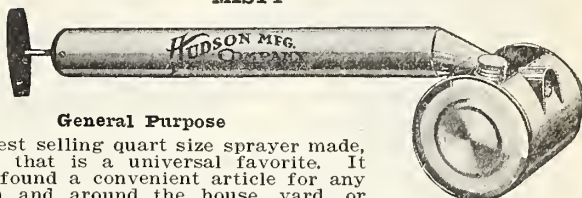


No. 175 — 2 ft. extension iron pipe. 40c each; brass 60c each.



No. 175

### MISTY



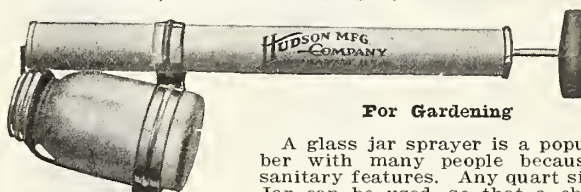
#### General Purpose

The best selling quart size sprayer made, and one that is a universal favorite. It will be found a convenient article for any work in and around the house, yard, or small garden, for it has a wide range of usefulness.

No. 4512—All Tin Quart Sprayer. Price each.....50c

No. 202—Midget Tin Sprayer, pint size. Price each.....40c

If to be sent, add 10c to each size.



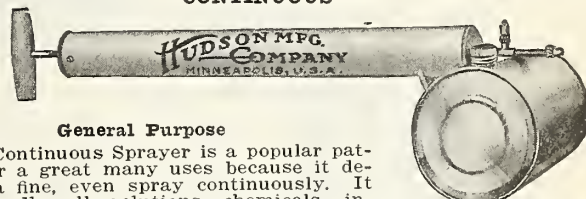
#### For Gardening

A glass jar sprayer is a popular number with many people because of its sanitary features. Any quart size Mason Jar can be used, so that a change can easily be made from one solution to another by simply changing jars. There is no need to clean out the tank, simply set away until again wanted. It is a strong, practical sprayer with double discharge tubes. Throws a wide fanshaped spray.

No. 530—Glass Jar, tin pump. Price each.....75c

Parcel Post, add 10c each size.

### CONTINUOUS



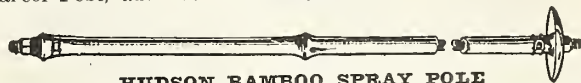
#### General Purpose

The Continuous Sprayer is a popular pattern for a great many uses because it delivers a fine, even spray continuously. It will handle all solutions—chemicals, insecticides, disinfectants, etc., in a practical and satisfactory manner. Construction permits it to operate in any position.

No. 7212—Heavy tin. Price each.....\$1.00

No. 7212—Brass tank, tin pump. Price each.....\$1.25

Parcel Post, add 10c each size.

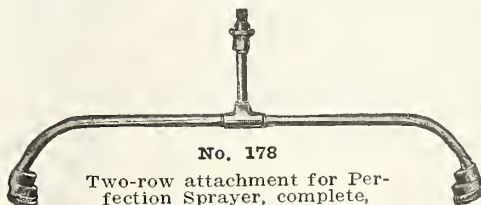


### HUDSON BAMBOO SPRAY POLE

No. 42—8 ft. Price each, with stop cock. Not available....\$4.50

No. 42—10 ft. Price each, with stop cock. Not available....\$4.75

No. 44—12 ft. Price each, with stop cock. Not available....\$5.00

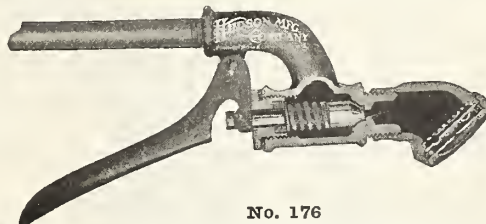


No. 178

Two-row attachment for Perfection Sprayer, complete, with nozzles .....\$2.10  
Postpaid.



No. 61  
Ideal Nozzle  
\$1.00



No. 176

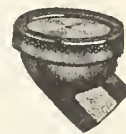
No. 176—Perfection Shut-off Nozzle. Each.....\$1.50

No. 71—Bordeaux Nozzle, for whitewash. Each.....\$1.00

No. 164—Double Fog Nozzle. Each.....\$2.00

No. 64—Double Ideal Nozzle. Each.....\$2.50

All Nozzles Post Prepaid.



No. 168  
Fog Nozzle  
75c.



## M. & S. Spraying Apparatus Jim-Dandy Sprayer



### SOMETHING NOVEL — SOMETHING NEW

Adapted for spraying Garden and Farm Vegetables of every description. Will spray rapidly. Disinfectants; Fly Spray; Whitewash, Carbola, Cold Water Paints, etc. To operate, simply work plunger, handle slowly; one stroke will cover a large area and no liquids wasted. The reservoir is made of heavy galvanized iron, capacity two quarts; all other parts are entirely of brass, including ball check valves and nozzle. The Golden Spray Nozzle furnished is adjustable for large fine mist spray or long distance coarse spray, as desired. Parcel post weight, 4 lbs. Price, \$3.50 each.

## The Paragon Sprayer

Excellent for applying whitewash or cold water paint, or any spray material.

No. 1—Equipped with a 5-gal. reservoir, 10 ft. of hose and 2 extension pipes, 1 straight spray nozzle, 1 mist nozzle; like illustration. Price, \$17.50.

No. 3—Equipped with a 12 gal. tank mounted on a truck, three 2½ ft. extension pipes, 2 nozzles and 10 feet of hose. \$25.00; without truck, \$21.50.

## Spray Hose

Spray Hose, ½ inch, best made, all rubber. 12½¢ per foot. Postpaid.  
½ inch clamps for same, 5c each; 50c dozen. Postpaid.  
½ inch Hose Couplings, 25c pair. Postpaid.

## Auto Sprayer No. 5, With Tank



No. 1 Paragon Sprayer

This pump is the ideal all-purpose hand sprayer. Its field is practically unlimited as it may be used for spraying trees, vines, garden truck, potatoes and any field crops, and for handling whitewash and disinfectants. It is made entirely of brass, doing away with all danger of corrosion. The Auto-Spray No. 5 excels all other pumps in durability and simplicity. Because it is double acting it will do the same spraying that other pumps do,

with half the labor. Parcel Post weight, 5 lbs. Price, \$3.00. We can furnish this pump without the Knapsack Tank. Parcel Post weight, 3 lbs. Price, \$5.00.

## Auto Spray No. 9

This sprayer is designed for all kinds of general purpose spraying. It is most convenient and satisfactory for spraying small trees and general garden crops, flowers, also whitewashing. It has the improved screw top, air pump locking device. Capacity 3½ gallons. Parcel Post weight, 10 lbs. Price—

No. 9D—Galvanized tank .....\$6.00  
No. 9B—Brass tank ..... 9.00

## Auto Spray No. 26

The No. 26 Auto Spray is a continuous atomizer. It throws a continuous mist like spray. It has several advantages over other sprayers. The tank can be detached from the pump cylinder for refilling and cleaning. It has two nozzles, one for throwing the spray straight and the other for throwing the spray under foliage. Prices, all tin, 90c each; all brass, \$1.35 each. Parcel Post weight, 3 lbs. each.

Auto Spray, No. 26-C—1 qt. all brass ..... 1.25  
Auto Spray, No. 26-A—1 qt. all tin ..... .80  
(Parcel Post weight of all sizes, 3 lbs.)

Garden or Greenhouse Syringe, No. 101—One rose and single stream, solid brass. Price, \$3.50. Parcel Post weight, 3 lbs.

## B. D. Sifter and Dickey Duster

B. D. Sifter—See illustration, also used for applying Bug Death and other powder insecticides. Parcel Post weight, 3 lbs. Price, 65c.

Dickey Duster—Made of tin; used for applying Bug Death and other powder insecticides. Parcel Post weight, 2 lbs. Price, 45c.

## SHARPER TOOLS MEAN BETTER FARMING Nos. 79 and 80 Farm Grinders

These all-metal foot-power grinders are sturdily built for long service. They are adaptable to all classes of grinding on the farm.

By actual tests made by the Government tools of all types are sharpened from ten to twenty times as fast on these grinders as on a back-breaking grindstone.

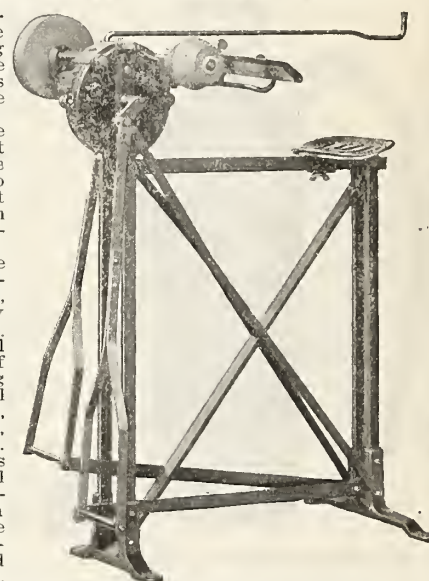
These are just the machines for sharpening plow-shares, discs, axes, and every edged tool on the farm.

Note the special "off-set" feature of the two grinding wheels. One wheel acts as a fly-wheel, making it a smooth, easy running machine. No. 79 (illustrated) is equipped with special sickle holding attachment, one 3½x3½ inch sickle conc. and one 6x1½x1 inch DIMO-GRIT tool wheel, and an adjustable tool rest.

No. 80 same as No. 79 except equipped with two 6x1½ inch DIMO-GRIT tool wheels, one coarse and one medium.

Gears are helical cut (like cream separator) fully enclosed. Machine is extra heavy and well-braced. Should be on every farm. Will pay for itself in short time.

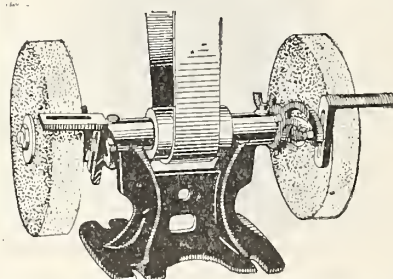
Price, \$17.50 either number. Sent express or freight.



## Special Power Grinder No. 306

A very substantial, well-built power grinder for light work.

Bearings are plain, bored and reamed in solid metal steel shaft. One tight pulley. Two adjustable tool rests. One medium and one coarse DIMO-GRIT tool wheel 6x1½ inch. Compare the price of this genuine LUTHER grinder with any other. Price only \$7.00. Sent express or freight.



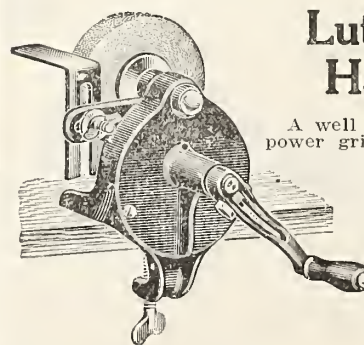
## Luther Standard Hand Grinders

A well built, low priced line of hand power grinders, suitable for general all around use in the home, work shop and garage.

Among the excellent features of the Standard Line are helical cut gear and pinion, heavy one piece case and overhanging flanges.

Regular equipment consists of rapid cutting wheel and work rest.

Finish blue enamel, baked by Luther special process.

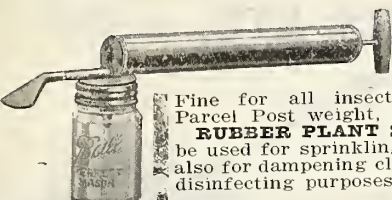


Nos.	24	25	26	27
Size of wheel	4x1x1	5x1x1	6x1x1	7x1x1
Grit wheel	Medium	Medium	Medium	Medium
Net weight, pounds	5	5½	8	10
Shipping weight, pounds	6½	7	14	16
Price, each	\$3.00	\$3.50	\$5.00	\$6.00

Order by Number.



## M. & S. SPRAYING APPARATUS—Continued



**M. & S. MASON JAR  
POWDER BLOWER**—

Fine for all insecticide in powder form. Parcel Post weight, 3 lbs. Price, \$1.00.  
**RUBBER PLANT SPRINKLERS**—They can be used for sprinkling plants, cut flowers, etc., also for dampening clothes and carpets, and for disinfecting purposes.

No. 480—8 oz. angle  
eck. See Fig. 3. \$1.10.  
Parcel Post weight, 1 lb.

No. 10—4 oz. straight  
eck. See Fig. 2. 75c.  
Parcel Post weight, 1 lb.

**UTILITY DUSTER**

No. 170—The Utility  
Duster will handle suc-  
cessfully Arsenate of  
Lead, Arsenate of Cal-  
cium, Paris Green, Lime-  
sulphur and similar  
mixtures in dry form.  
They made be applied at  
any time of the day, on  
plants while wet or dry.  
It is so designed that a  
steady and uniform de-  
livery is maintained and  
one or two rows may be  
reated at one time as  
fast as a man walks.

Packed one in a car-  
on complete. Shipping  
weight, 8 lbs.

No. 170 Utility Duster,  
price \$12.00.

**LITTLE GIANT T  
POWDER DUSTER**—

This Duster is somewhat  
like the Champion Duster,  
except it is lighter  
and has a smaller capa-  
city. It is nicely made  
and very strong. Our  
Special Price, \$11.50.  
Weight, 12 lbs.



### Saucer Lawn Sprays

75c postpaid.

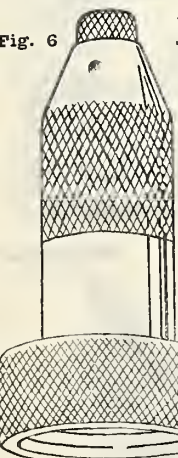


Fig. 6

### Rainbow Lawn Sprinklers

Rainbow Sprinklers run  
on a hard fibre washer  
which absorbs water and  
eliminates all wear and tear. Covers area  
40 to 50 feet, throws wonderful spray,  
revolves fast on any pressure. No repairs,  
no leaks. Price, \$3.00, postpaid.

**REVOLVING SLED STAND SPRINK-  
LER.** Fig. 5. Price, \$3.00, postpaid.

**STANDARD REVOLVING STICK  
STAND SPRINKLER**—36 in. long,  
wonderful for gardens. Price, \$3.00,  
postpaid. Fig. 4.

Fig. 5

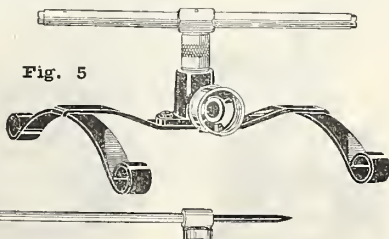


Fig. 4



### Fountain Sprinkler

Made of Heavy Brass  
Easily moved over  
the lawn without turn-  
ing off the water. The  
mist-like spray is a  
veritable "thing of  
beauty." Parcel Post

Fig. 2

weight, 2 lbs. Price, 80c.

**BABY FOUNTAIN LAWN  
SPRINKLER**—Fig. 2. Same as  
above but smaller. Parcel Post  
weight, 2 pounds. Price, 60c.

**"M. & S." LAWN SHOWER  
SPRINKLER**—A most complete  
lawn sprinkler, which will throw  
even shower spray for a radius of

20 feet. Price, 25c each. Parcel Post weight,

2 lbs.  
No. 955—**THREE-ARM SPRINKLER**—  
Can be operated with moderate pressure,  
covers wide area, and distributes water  
evenly. Revolving arms throw water in a  
fine spray into the air and the motion pro-  
duces a fine mist. Height, 1 foot. Nickel-  
plated and nicely finished. Price, \$2.25.  
Weight, 4 lbs.

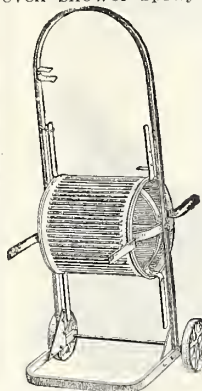


Fig. 1

### Rubber Hose, Reels, Menders, Etc.

**HOSE COUPLINGS**—Brass, regular size,  
25c per pair.

**HOSE WASHERS**—Rubber, regular size.  
10c per dozen.

**HOSE BANDS**—For 3/4 and 1/2-inch hose.  
5c each; 50c doz.

**HOSE NOZZLES**—Combined solid stream  
and spray. 80c each. (Boston.)

**RAINBOW HOSE NOZZLE**—The perfect nozzle. No leaks,  
nothing to wear out, full stream, fine spray, soft stream, posi-  
tive shut off. Price, 85c, postpaid. (See other column, figure 6.)

**HOSE REELS**—Wood, \$2.00; Steel, \$2.50. (Figure 1.)

### 2-Ply Whipcord Braided Garden Hose

The hose we offer is the best. It is guaranteed not to break.

**WHIPCORD**—Continuous length braided 3/4 in. hose. We can  
furnish any lengths. We can highly recommend this hose. 15c  
per foot any length without couplings.

25 feet coupled ..... \$4.25  
50 feet coupled ..... 8.00  
100 feet coupled ..... 15.00

**WIXOM GARDEN HOSE**—5-ply, coupled in 50 ft. lengths.  
Price, \$6.75; 25 feet, \$3.75.

**"PERFECT CLINCHING" HOSE  
MENDER**—Slip in the hose and  
hammer down—that's all. It  
leaves the hose as smooth and  
strong and tight as a new hose.  
It does the work of the mender  
tube and two clamps formerly  
used. Price 15c each; 2 for 25c;  
\$1.25 dozen, postpaid.



### Ideal Power Lawn Mowers

There is an Ideal Mower for every  
lawn mowing requirement:

The 22-inch Junior, which cuts  
one-half acre hourly.

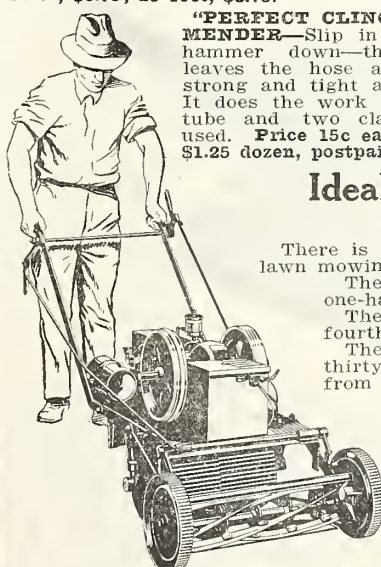
The 30-inch, which cuts three-  
fourths acre hourly.

The 84-inch Triplex with three  
thirty-inch cutters, which cuts  
from 3 to 4 acres hourly, and is  
for vast areas of lawn,  
such as golf fairways.

The 18-inch special Power  
Putting Green Mower,  
which saves 50% over the  
hand method of mowing  
golf putting greens.

Then there is also the  
Ideal Power Lawn Sweeper.

Complete information on  
any or all, including prices,  
on request.

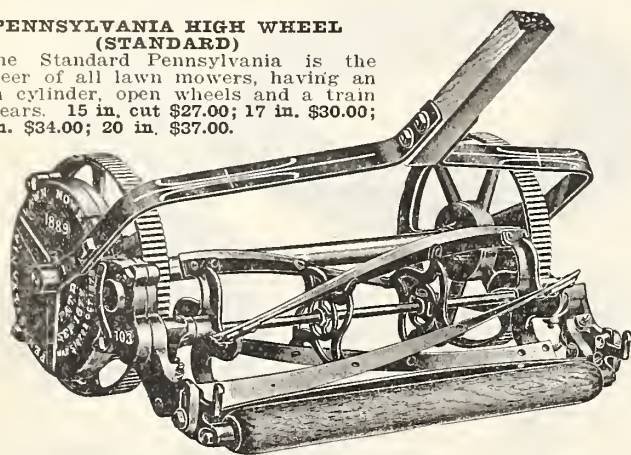




# M. & S. RELIABLE LAWN MOWERS, ETC.

## PENNSYLVANIA HIGH WHEEL (STANDARD)

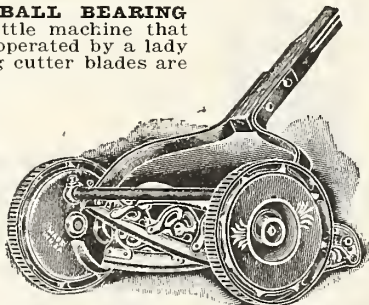
The Standard Pennsylvania is the pioneer of all lawn mowers, having an open cylinder, open wheels and a train of gears. 15 in. cut \$27.00; 17 in. \$30.00; 19 in. \$34.00; 20 in. \$37.00.



**M. & S. "COLONIAL" BALL BEARING LAWNMOWER**—A grand little machine that runs so easy that it can be operated by a lady or child. The four revolving cutter blades are made of the finest material.

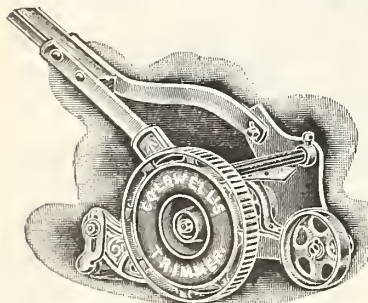
**PRICES:**  
12 in. \$9.25; 14 in. \$10.25;  
16 in. \$11.25.

**COLDWELL'S LAWN TRIMMER**—Excellent for trimming around flower beds, shrubbery and walks. Revolving cutter is 6 inches and cuts within 1/4 inch of side construction.  
Price, \$10.50.

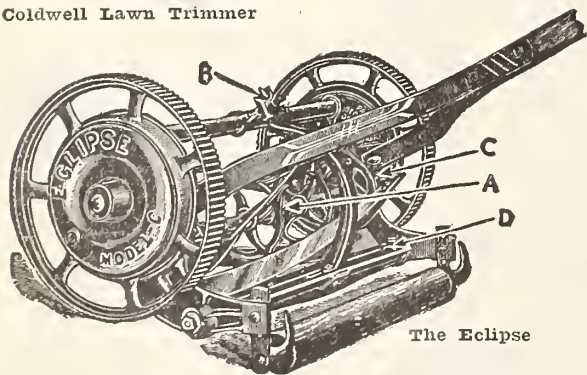


M. & S. Colonial

**"PLANET JR." GRASS EDGER**—Extreme neatness is the great secret of attractiveness in grounds surrounding a house. The "Planet Jr." Grass Edger assists wonderfully in producing this effect. It will edge either straight or curved work, paths, drives, open borders or flower beds, doing the work well and rapidly when ground is in order, as after rain.  
Price, \$6.50.



Coldwell Lawn Trimmer



The Eclipse

## ECLIPSE BALL BEARING

The Eclipse Self-Sharpening Lawn Mower "the machine with no bad features"—The Eclipse is a strong, durable, handsome machine in which simplicity is the keynote. Has ten-inch drive wheels, six-inch four blade reel, flat spring steel clutches, crucible steel blades, the strongest frame and best hard maple handle and roller in any lawn mower.

The Lever Adjustment for bringing the stationary blade up to the revolving blades is so simple that a child can do it. No troublesome set screws or bolts to operate—no tools needed—just two thumb nuts do it.

14 in. cut \$18.50; 16 in. \$20.50; 18 in. \$22.50; 20 in. \$24.50.

**M. & S. SWIFT CUTTER**—A low-priced machine for small grass plots not ballbearing, fully guaranteed.

**Prices:** 12 in. cut \$6.50; 14 in. \$7.50; 16 in. \$8.50.

**COLDWELL'S IMPROVED HORSE LAWN MOWER**—This well known standard mower has side draft attachment that enables the horse to walk on the cut grass only, and caster rollers which will not mark the lawn. Complete with seat and shaft.

**Price:** 30 in. \$125.00; 35 in. \$145.00; 40 in. \$165.00.

**PONY MOWER**, 25-inch cut, equipped with single tree only. Price, \$85.00.

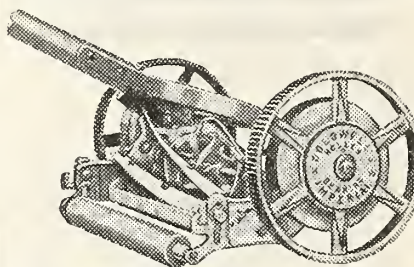
**OIL CANS**—Filled with oil, 15c and 25c.

We Repair

and  
Sharpen  
Lawn Mowers

**HORSE BOOTS**, Set of four, \$20.00.

**THE "CLIPPER" MOWER**—There are three things that tend to destroy your lawns—dandelions, buck plantains and crab grass. In one season the Clipper will drive them all out. 12 in. cut \$9.50; 15 in. cut \$10.75; 18 in. cut \$12.00; 21 in. cut \$13.50; 24 in. Pony Mower \$26.00.

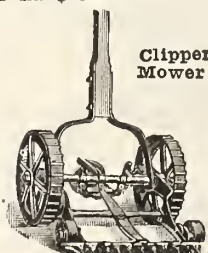


**M. & S. EASY EMPTYING CANVAS GRASS CATCHER**

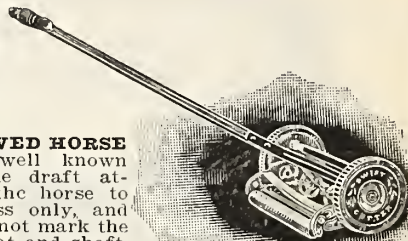
Designed to fit any size or style of mower and can be attached or detached in a moment. Made of strong canvas and galvanized iron bottom. To fit any mower, 12 to 18 inch, \$1.50. Parcel post weight 5 lb.

**ECONOMY GRASS CATCHER**—A good make, but lighter than the Easy, construction similar, fits any mower from 12 to 17 inches. Price, \$1.00. Parcel post weight, 5 lbs.

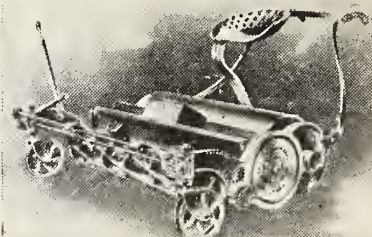
**M. & S. "INTERSTATE"**—Ball bearing, first class, high wheel. Easy running, fully warranted. Prices—14 in cut \$13.00; 16 in. \$14.00; 18 in. \$15.00.



Price, see above.

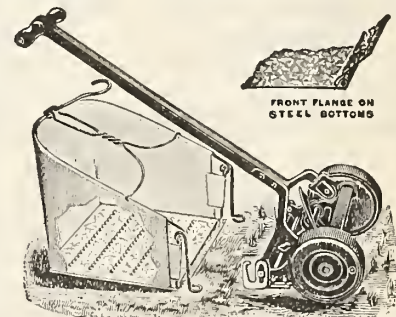


## Coldwell's "Improved" Horse Lawn Mower

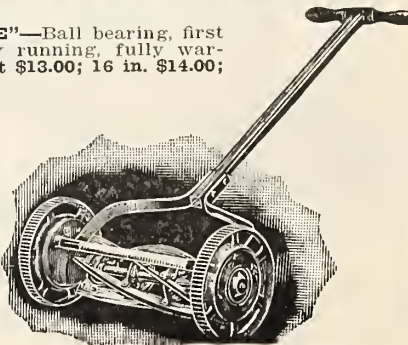


## COLDWELL'S IMPERIAL ROLLER BEARING

**Lightest Running — Strongest Built.**  
Wheels—10 1/4 inch.  
Blades—Five.  
Bearings—Standard Hyatt Roller.  
Gears—Triple-pawl ratchet.  
Material and Finish—Highest class.  
Prices: 16 in. \$17.50; 18 in. \$19.00; 20 in. \$20.00



FRONT FLANGE ON STEEL BOTTOMS

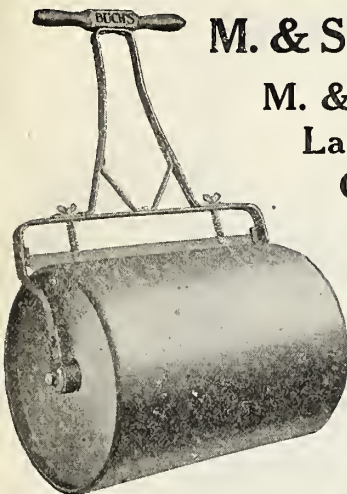


M. & S. Interstate



# M. & S. LAWN AND GARDEN ACCESSORIES

## M. & S. Water Ballast Lawn and Tennis Court Rollers



The proper roller for most any occasion; fill it with water or sand, which will weight it any number of pounds desired. Handle always in position ready for use; roller axle bearings. You can make it as heavy or as light as you wish. The drum can be filled with an ordinary garden hose, when through for the season pour the water out and the roller is easy to put away.

	In.	In.	Empty.	Water.	Filled with Sand.	Price.
No. 602	18	24	75	330	475	\$19.50
No. 603	24	24	100	440	630	22.50

**Cast Steel Roller Bearing Lawn Roller**—To raise a velvety, thick lawn and keep it so the lawn-roller is a great aid. In the spring, after a season of freezing and thawing, the ground becomes uneven and porous, and receding, from the grass roots.

No. 501—Diam. 15 in., 2 sec., weight 175 lbs., length 15 in., \$17.50

No. 504—Diam. 20 in., 2 sec., weight 250 lbs., length 20 in., \$22.50

No. 507—Diam. 20 in., 2 sec., weight 300 lbs., length 24 in., \$27.50

**Horse Lawn and Field Rollers and Other Size Hand Rollers**—Prices furnished upon application.

## "Tro-Weed"

A BOON TO  
GARDENERS,  
FLORISTS, GREEN-  
HOUSEMEN.



Combination Garden Tool—Trowel—Weeder—Transplanter.

**ADVANTAGES OVER ORDINARY TROWEL-WEEDER, ETC.**

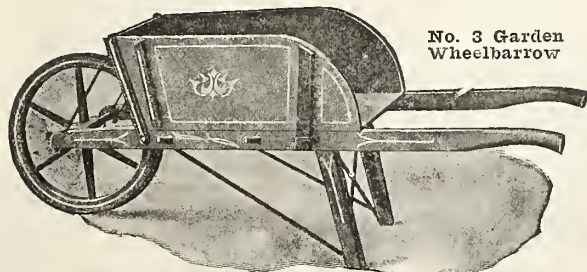
1st—The sharp point enters the soil with ease, picking out weeds without disturbing growing plants—in transplanting has no equal. 2nd—The saw tooth edge—decided aid in pulverizing the earth, loosening weed roots. 3rd—Does away with separate tools. 4th—Mechanically perfect in construction. The shape strengthens the solid steel blade, making it proof against rough usage. Also increases its holding capacity. 5th—Most important to consider—no higher in price than the ordinary all-steel trowel. Price, 40c. Parcel Post weight, 2 lbs.

## Oils and Axle Grease

Harness Oil "Eureka"—Pt. 35c.  
Cream Separator Oil—2 qts. 75c; 5 gals. \$4.50.  
Harvesting Machine Oil—Gal. \$1.00.  
Gasoline Engine Oil—Gal. \$1.25.

Fig. 4.  
Household Lubricant Oil—In can with spout ready for use. 20c. Empty can like Fig. 4, fits field mowers—15c each. Parcel Post weight, 1 lb.  
Mica Axle Grease—1 lb. Can, 15c and 3 lb. can 40c.

## Wheelbarrows



No. 3 Garden  
Wheelbarrow

No. 3 Wheelbarrow, for Garden and Farm Use—A durable, neat garden barrow. Size of body, 26 in. long, 19 in. wide in front, 22 in. wide at back. Sideboards, 27 in. long, 12 in. high; handles, 4 feet 9 inches long; 2x1½ in. wheel; 20 in. diameter; 6 spokes. Price, \$6.75. Set up, \$7.25.



**Cleveland Weed Puller**—Fig. 19. Valuable for extracting weeds from the lawn. A great back saver. The curved edge of the blade enters and loosens the soil; pressure on the lever then causes the toothed jaw to grasp the plant, and a slight pull will dislodge it without disturbing the surrounding sod. Price, \$1.00. Weight, 4 lbs.

**Long Handle Grass and Weed Sickle**—Fig. 20. Light, strong, durable. The blade 13 in. long, 2¼ in. wide at the heel, is made of crucible steel, oil tempered and sharpened to a razor edge. The shank, made in two parts. Weight, 2 lbs. Price, \$1.00.

**Godwin's Grass Shears**—Fig. 18. Something entirely new; weight, 2 lbs. Price, \$1.50. See Fig. 18.

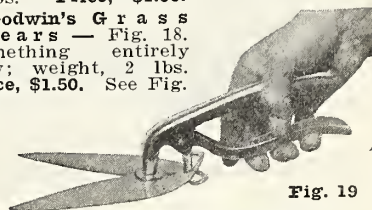


Fig. 19

**Improved Godwin's Grass Shear**—Same principle as the regular Godwin, but is ball bearing, which is a big improvement. Nickel finish. Price, \$2.00. Parcel Post weight, 2 lbs.

**No. K Keen Kutter Grass Hook**—Trowel Shank; blades hammered from crucible steel. 75c each. Parcel Post weight, 2 lbs.

**Fraser Riveted Back Grass Hook or Sickle**—

This is the imported solid steel hook, which we have been unable to import for some time, but now have a full stock. Price No. 2, 75c. No. 3, 85c. Parcel Post weight, 2 lbs.

## GRASS SHEARS



**Grass and Sheep Shears, No. 373**—Full polished; imported 6 in. shears. Weight, 1 lb. Price, 75c.

No. 0295—Very good shears; made of high tempered steel. 90c. Parcel post weight, 1 lb.

No. 3770—Imported 6 in. steel shears, full size, the best. Price, \$1.25. Weight, 1 lb.

No. 346—Imported very good steel, 5½ in. Price, 50c. Weight, 1 lb.

**Lawn Shears Imported**—Two wheels, 9 in. blade, long handle for cutting on narrow borders, under fences and shrubs. Price, \$6.00.

**Border Shears**—Same as above, but the blades are shaped vertical for trimming borders. Price, \$6.00.



Fig. 17

**Asparagus Knife**—Which makes a fine weeder as well. Fig. 17. Price, 40c. Weight, 1 lb.

**Asparagus Buncher**—The latest improved. Price, \$3.00. Wt. 4 lbs.

**Wire Fruit Pickers**—To be adjusted to long pole. Price, 60c each. Weight, 2 lbs.



Fig. 18.

**Keen Kutter Dock Cutter and Weeder**—Fig. 18. Price, \$1.25. Pastime Weeder—Price, 25c. Weight, 1 lb. Long handle. "Dandelion" Spuds—A practical weeder; long handle. Price, 25c.



# THE "LITTLE WONDER" HEDGE TRIMMER



**Illustrating Top Cuts with 30-Inch and 40-Inch Models**

30-inch model is entirely a one-man machine, very easy to control on all cuts, top or side. By cutting in from each side, tops of 4 ft. wide hedge may be trimmed.

In cutting tops of very wide or high hedge, the one-man attachments are omitted when using 40-inch model and two persons operate and make a very quick job.



**This Illustrates  
How Side Cuts  
Are Made with  
30-Inch and  
40-Inch Sizes.**

**A very even cut  
is made, as  
machine is  
easily controlled.**



**Showing Use of 40-Inch and 60-Inch Machine in Making Top Cuts. A child is all that is necessary to assist.**

## THE "LITTLE WONDER" HEDGE TRIMMER

Entirely revolutionizes hedge trimming.

Will trim top and two sides of a hedge 300 ft. long in one hour.

Trims every variety of hedge grown.

Will pay for itself in one day's constant use.

It actually cuts from five to ten times as fast as by hand shears. This is guaranteed.

If you have hedge you cannot afford to be without it.

Has been on the market for two years and is in use by thousands of gardeners, hundreds of whom sent splendid unsolicited testimonials on the merits of this wonderful tool.

It is wonderful how quickly it cuts (actually as fast as you walk) and how smooth a job it makes and how easily it operates. An amateur becomes proficient almost immediately.

Blades are made of special high carbonized steel, well tempered and with proper care will last a life time.

Not built for cutting back old growth and dead wood, but will readily trim new growth, the size of a lead pencil and heavier.

A one-year guarantee and complete instructions (so simple that a child can assemble) come with each machine.

Model B machine cuts 40-inch wide and because of its lightness and ease of operation, practically makes it a universal machine for all sizes of hedge, while the 30-inch model is suitable for hedges as high as 3 ft. and almost any width up to 4 ft.

Notice: Kindly send your order in at once as we expect to be sold out early, we want none of our customers to be disappointed in not being able to procure this wonderful machine.

Gentlemen: Your LITTLE WONDER Hedge Trimmer, purchased this season is in the opinion of the writer, the greatest invention and labor saver of the age to the Nursery and Horticultural Trade. Paid for itself in one cutting, with at least 25 per cent. of Labor cost. Not only on Hedges, but on specimen shrubbery, plants and trees has this machine proved itself indeed the LITTLE WONDER.

P. H. WILLIAMS,  
Supt. Stone Ridge Farm,  
Bethesda, Md.

Gentlemen: I just want to say that the "Little Wonder" Hedge Trimmer, has been put to the most severe test this past season, and has proven perfectly satisfactory in every respect.

Your very truly,  
J. FRED WESSLER,

District Superintendent Dept' of Parks, Baltimore, Md.

### Model. Cutting Bar.

Model.	Cutting Bar.		Price.
E	30-Inch	Complete with One-Man Attachments	\$25.00
B	40-Inch	Two-Person Machine, omitting One-Man Attachments	27.00
B	40-Inch	With One-Man Attachments	30.00
D	60-Inch	Two-Man Machine	35.00

Weight of machines from 10 to 15 pounds, according to size and attachments. Shipping weight, 25 pounds. 30 in. and 40 in. sizes may be sent by parcel post.



## M. & S. PRUNING TOOLS, ETC.

### "McKenney Pruner"

Made in two sizes: No. 1 and No. 2. The No. 1 cuts limbs up to 1 inch in diameter.

The No. 2 cuts limbs up to 1½ inch in diameter. Splendid for de-horning young cattle. Fig. 2.

Weight. Length. Price.  
No. 1 ..... 2 lbs. 23-inch. \$4.50  
No. 2 ..... 5 lbs. 30-inch. 6.00

In order that you may be convinced that the "McKenney" Pruner is the best, we ask you to test it out against all other pruners that are on market.

**Rhodes Double-Cut Lopping Shears**—For trimming trees, bushes, heavy shrubbery, etc. Makes an absolutely clean, perfect cut; 24 in. handle. Price, \$5.00. Parcel post weight, 5 lbs.

**"Keen Kutter" Pruning Shears**—Fig. 3. Curved blade and hook. Forged steel; polished and tempered, ratchet tightening knot; extra heavy and long steel ferrules; handles riveted through ferrules and tang; 24-inch hardwood handles; natural finish. Price, \$2.50. Parcel post weight, 4 lbs.

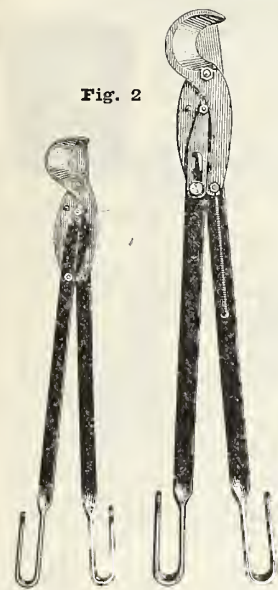


Fig. 2



Fig. 3

**Draw Cut Pruning Shears**—Made of best material, very strong and clean cutting. No. 31—24 inch handle, \$3.00. No. 32—22 inch handle, \$2.75. Parcel post weight on both, 5 lbs.

#### "KEEN KUTTER" TREE PRUNER

Select hardwood pole, natural finish; forged steel hook, painted red, riveted to handle; tempered crucible forged tool steel drawn cutting blade 4½ inches long, insuring ample leverage; copper finish steel wire drawing rod; steel lever handle; painted red, with hardwood grip; clip that handle works is bolted to pole; length of lever handle, 11 in., 10 ft. Price \$2.50; 12 ft. \$2.75.

**Jointed Pole Tree Trimmer**—Fig. 24. 12 feet long, can readily be transformed to 8 foot trimmer; made of the best material; very strong. Price, \$4.00. Parcel Post weight, 8 lbs.

Extra blades, 40c each.



Fig. 24

#### HAND PRUNING SHEARS

No. R-95. 10 inch—The best made, has adjusting nut and regulating ratchet, made after the French pattern coil spring and wheel type. Price, \$3.75; weight, 1 lb.

No. 110. 8 inch—This shear designed with two cutting edges, has tremendous strength best for long hard use and positive cutting. Price, \$3.00; weight, 1 lb.

No. R-85. 8½ inch—Full polished. Double flat brass spring kind, extra blade with each blade. Price, \$2.25; weight, 1 lb.

No. R-70. 9-inch—Like illustration, has adjusting nut and regulating ratchet, steel blades of extra quality, tempered, Volute spring. Price, \$1.50. Parcel Post weight, 2 lbs.



Fig. R-85

No. R-65. 9 inch—Like above, no extra blade polished pruner. Price, \$1.60; weight, 2 lbs.

No. 50. 9 inch—A good pruner, weight 1 lb. 85c.

No. 14. 6 inch—Ladies' pruner, full polished, \$1.25. Fig. 6. Parcel Post weight, 1 lb.



Figs. 1 2 3 4 5 6

**Solid Steel Hedge Shears**—12 in., \$3.25; 10 in., \$2.75; 9 in., \$2.25; 8 in., \$2.00. All equipped with notch; the notch is very useful in heavy trimming or lopping. Parcel Post weight on all hedge shears, 3 lbs.

**Ladies' Hedge Shears**—5½ inch cut. Price, \$1.25. Parcel Post weight, 2 lbs.

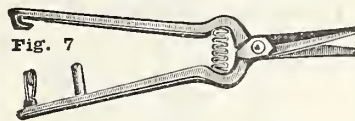


Fig. 7

**Pruning Knives, No. 900**—Wood handle. \$1.00, postpaid.

No. 1870—Spey blade, cocobola handle, steel lining, steel bolsters, glazed finish. 60c, postpaid.

**Saw and Budding Knife Combined No. 100**—Very useful. \$1.25, postpaid.

**Budding Knives, No. 2852½**—Bone handle. 80c, postpaid.

**Pocket Knives, No. 40062**—Combined pruning and budding, bone handle. \$1.00, postpaid.

No. 2112—Same knife, ebony handle, \$1.25, postpaid.



**GRAFTING WAX**—½ lb. 15c; ¼ lb. 25c; 1 lb. 40c. **Hot Bed Sash**—Made to hold either 24 or 28 8x10 panes. These sashes are grooved so that the panes slide in and butt one against the other. \$2.00 each. Price subject to change.

**Hotbed Mats**—Eulap covered, 40x76 size, covers one sash. \$1.75 each; 76x76, covers two. \$2.75 each. Price subject to change.



**Hotbed Glass**—Box of 90 panes, 8x10, \$3.75. Price subject to change.

**Putty Bulbs**—For applying liquid putty. Fig. 22. Price, \$1.35. Parcel Post weight, 1 lb.

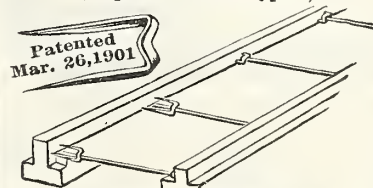


Fig. 22

**Putty**—Semi-liquid. For bedding-glass in sash and filling cracks or seams in roof joints or frames of hotbed or green-houses. Gallon, \$2.75.

#### "PEERLESS" GLAZING POINT.

(Improved Van Reyper.)



Patented Mar. 26, 1901

**Peerless Glazing Points**—The finest glazing points on the market. Per box of 1,000, 75c. Parcel Post weight, 1 lb.

#### A few of Its Good Points

—No raising up when driven. No rights. No lefts. No sliding. No trouble to apply. Cheap, indestructible. Once used, always used. Try them once.

## Thermometers

Parcel Post Weight, 1 lb. on any of the four listed.

**Regular Thermometer**—Nicely finished. Price, 75c.

**Self-Regulating Hothouse Thermometer**—Best grade, \$5.50.

**Hotbed Thermometer**—Brass point. Fig. 8. Price, \$1.75.

**Hotbed Thermometer**—Iron frame and point. Price, \$1.75.

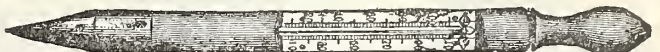
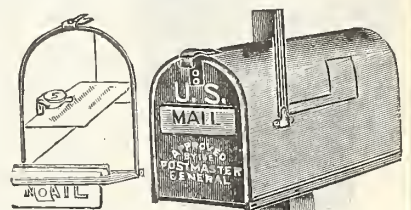


Fig. 8

## Rural Mail Boxes

22. Gauge Galvanized Steel, without Inner Galvanized Box. Box has a Letter and Coin Holder for mailing Letters when not supplied with stamps; Reinforced Roller Ends; Drop in End of Box for Depositing Mail without Unlocking; Red Signal raised by Mail Carrier to show that he has deposited mail in the Box. Price, \$1.75. Parcel Post weight, 8 lbs.





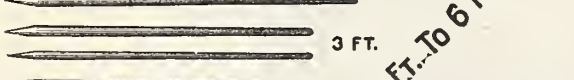
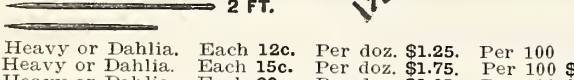
**Regular Home Letter Boxes, No. 10**—Oxidized finish with clip to hold papers. Price, \$1.50. Parcel Post weight, 2 lbs.



**M. & S. HORTICULTURAL AND GARDEN SUPPLIES****Pot and Tree Labels—Painted**

Width.	100	P. P. Wt.	500	1000	P. P. W. per 1000
4 x 5/8 in.	\$0.30	1 1/2 lb.	\$1.00	\$1.60	3 lbs.
5 x 5/8 in.	.35	1 1/2 lb.	1.25	1.95	4 lbs.
6 x 5/8 in.	.40	3/4 lb.	1.50	2.35	5 lbs.
10 x 5/8 in.	.75	1 lb.	3.25	5.40	10 lbs.
12 x 5/8 in.	.90	2 lb.	3.50	6.60	12 lbs.
8 x 7/8 in.	.75	2 lb.	3.50	6.00	9 lbs.
10 x 7/8 in.	1.00	2 lb.	4.25	7.50	10 lbs.
12 x 1 1/8 in.	1.25	3 lb.	6.00	10.50	12 lbs.
3 1/2" Copper Wired	.35	1 1/2 lb.	1.25	2.20	4 lbs.

**GREEN PAINTED ROUND PLANT STAKES**

	5 FT.
	4 FT.
	3 FT.
	2 FT.
<i>1 1/2 ft. to 6 ft. long</i>	
3 ft., Heavy or Dahlia.	Each 12c. Per doz. \$1.25. Per 100 \$3.60
4 ft., Heavy or Dahlia.	Each 15c. Per doz. \$1.75. Per 100 \$11.40
5 ft., Heavy or Dahlia.	Each 20c. Per doz. \$2.25. Per 100 \$14.60
6 ft., Heavy or Dahlia.	Each 25c. Per doz. \$2.75. Per 100 \$17.90
P. P. Wgt., Per Doz., 3 ft., 3 lb.; 4 ft., 5 lb.; 5 ft., 7 lb.; 6 ft., 9 lb.	

**LIGHT PLANT STAKES**

1 1/2 ft., Light, each 3c; dozen 25c; 100 \$1.50.
2 ft., Light, each 4c; dozen 40c; 100 \$2.80.
2 1/2 ft., Light, each 6c; dozen 60c; 100 \$4.10.
3 ft., Light, each 8c; dozen 75c; 100 \$5.40.
Parcel Post Weight, Per Dozen, 1 1/2 ft., 1/2 lb.; 2 ft., 1/2 lb.; 2 1/2 ft., 1 lb.; 3 ft., 1 1/4 lb.

**BAMBOO PLANT STAKES**

	Dozen.	100	1000
2 ft., painted green	\$0.15	\$0.75	\$6.50
3 ft., painted green	.20	1.10	9.00
4 ft., painted green	.25	1.50	12.00
6 ft., not painted	.30	2.00	14.00

**Pointed Floral or Hyacinth Stakes**

Used for Staking Hyacinths, Tulips, Etc. Dyed Green.

	Price, Doz.	Price, 100	Price, 1000
12 inch	\$0.05	\$0.30	\$2.25
18 inch	.08	.50	3.00

Special Prices to Florists in 1,000 Lots.

**NEPONSET  
WATERPROOF PAPER  
FLOWER POTS**

Extensively used for shipping, starting seeds and seedlings in frames and hot-houses.

	Per Doz.	Per 100.	Per 1000
2 1/4 in.	\$0.08	\$0.50	\$3.40
3 in.	.15	.70	5.30
3 1/2 in.	.20	1.00	6.90
4 in.	.25	1.25	8.60
5 in.	.30	1.75	13.40
6 in.	.40	2.50	17.90

Dozen and 100 lots, postpaid; 1,000 lots, add 25c.

**FIBRE SAUCERS AND ROLLING STANDS**

These can be depended on not leaking; finished in mahogany color.

Diameter.	Each.	Doz.
5 in.	\$0.30	\$3.50
6 in.	.35	3.90
7 in.	.40	4.20
8 in.	.45	4.50
10 in.	.50	5.30
12 in.	.60	6.30
14 in.	.75	8.40
16 in.	1.25	15.00
18 in.	1.50	17.40

All Postpaid.

Rolling Stands for 18, 16, 14 and 12 inch only. Prices, 60c, 55c, 50c and 30c, respectively.

**Flower Pots, Stakes, Etc.****N. Y. STYLE CEDAR TUBS.**

The New York style tree tubs are made of seasoned selected Virginia white cedar, and are trimmed with specially designed metal feet, extra heavy flat steel hoops and liberal-size metal handles. These tubs are painted with the best oil paints—a handsome green on the outside and dark gray inside. Hoops, handles and feet trimmed in jet black.

**New York Style.**

Size.	Top Diameter Inches.	Bottom Diameter Inches.	Depth Finished Inches.	Price Each.	Weight Each Pounds.
No. 1	12	9 3/4	10 5/8	\$1.85	9
No. 2	13	10 3/4	12 3/4	2.50	13
No. 3	14 1/2	12 7/16	14 3/4	3.00	15
No. 3 1/2	16 1/2	14 1/2	15 3/4	4.00	18
No. 4	19 7/16	17 1/4	16 5/8	4.25	21
No. 5	22 7/16	20 1/4	18 1/2	5.25	26

**Richmond Style.**

The Richmond Style tree tubs are made of seasoned selected Virginia white cedar, are bound with electric-welded wire hoops, galvanized, three hoops to each. The Richmond Style fills a long-felt want for a cheap type of plant tub and is being used by many large florists in the place of earth pots. These plant tubs are nicely painted with the best oil paints—a handsome green color inside and out. The tops of the staves are slightly beveled, which gives them a neat, trim finish. Has no feet or handles.

Size.	Inside Top Diameter Inches.	Inside Bottom Diameter Inches.	Inside Depth Inches.	Price Each.	Weight Each Pounds.
No. 5	10	7 1/2	9	\$0.65	3
No. 7	12	9	11	1.10	4 1/2
No. 9	14	11	13	1.60	7
No. 11	16	12 1/2	15	1.90	9

**Earthenware Flower Pots**

Sent by Express and Freight Only.



	Each.	Dozen.	100.
2 in.	\$0.03	\$0.20	\$1.35
2 1/2 in.	.04	.27	2.00
3 in.	.06	.30	2.25
4 in.	.06	.45	3.25
5 in.	.09	.70	5.25
6 in.	.12	1.25	7.75
7 in.	.18	2.00	15.00
8 in.	.30	2.75	20.00
9 in.	.40	3.75	29.00
10 in.	.55	5.50	37.50
12 in.	1.00	9.50	75.00
14 in.	1.60	16.00	125.00

**EARTHEN BULB PANS**

	Each.	Dozen.	100.
6 in.	\$0.12	\$1.25	\$7.75
7 in.	.18	2.00	15.00
8 in.	.30	2.75	20.00
9 in.	.40	3.75	29.00
10 in.	.55	5.50	37.50

**EARTHENWARE SAUCERS**

4 in.	\$0.04	\$0.40	9 in.	\$0.15	\$1.50
5 in.	.06	.50	10 in.	.18	1.75
6 in.	.07	.65	12 in.	.30	3.00
7 in.	.10	1.00	14 in.	.40	4.00
8 in.	.12	1.25			

Prices on 1,000 Lots on Application.

**Twines, Etc.**

Jute Twine—3-ply, 15c ball; 35c lb.

Binder Twine—Standard; ball, 5 lbs. 75c. Quantity price furnished on application.

Fodder Twine, or Tarred Sisal—Lb. 15c. Quantity prices furnished on application.

Plow Lines—Cotton, per pair, 75c; Sisal, 40c. Weight, 2 lbs.

Garden Line—150 feet of good cotton line, 35c.

**Raffia**

Fig. 21.

the garden. Price, lb. 25c. Hanks contain about 2 1/2 lbs. at 20c per lb.; 25 lbs. or more, at 18c lb. Special price on larger quantities.

**START YOUR EARLY VEGETABLE AND FLOWER SEEDS INDOORS IN NEPONSET FLOWER POTS.**



## M. & S. FARM AND GARDEN TOOLS



### Garden Tools, Shovels, Rakes, Etc.

Keen Kutter Round Point Long Handle Shovels—\$1.75.  
Keen Kutter Square Point D Handle Shovels, No. 3—\$1.75.  
Fig. 1.  
Keen Kutter D Handle Spade—\$1.75. Fig. 22.  
Keen Kutter Long Handle Spade—\$2.00.  
D Handle Nursery Spade—Double straps entire length of handle, \$3.50.

#### "KEEN KUTTER" FORKS

3-tined Hay Fork—\$1.50.  
4-tined Hay and Manure—Long handle, \$1.50. Fig. 2.  
4-tined Manure—D handle, \$1.50. Fig. 3. Heavy Fork, \$2.00.  
4-tined Spading Fork—D handle, \$1.75.  
"Keen Kutter" Hoes—Fig. 4. Crucible steel, 6½ and 7½ in., \$1.00; 1-pronged, weeding hoe, 50c; 2-pronged, 60c.  
K. K. Eye Hoe—7½ inch blade, \$1.25, including handle.  
"Keen Kutter" Pick—Fig. 9. Price, \$1.35; with handle, \$1.75.  
"Keen Kutter" Mattock—Price, \$1.50; with handle, \$1.90.  
Grub Hoe, or Mattock—Price, \$1.25; with handle, \$1.75.  
One-Piece Grubbing Hoe—Extra strong, true tempered steel. Fig. No. DE 38, \$1.25.  
Mattock Hoe—Fig. 19. Without handle, \$1.15.  
Mattock and Pick Handles—Price, 40c.  
English Scuffle Hoe—6 in. 90c. No handle. Handle, 35c extra.  
"Keen Kutter" Ladies' and Children's Garden Tool Set—Fig. 8. Consisting of rake, shovel, hoe and spading fork. Made of first-class material. Not toys, but tools that will do and stand the work. Price, \$2.75. Single tools: Shovel, 80c; Rake, 50c; Hoe, 75c; Spading Fork, \$1.00.  
Garden Hook or Weeder—Fig. 16. 50c. Weight 1 lb.  
Garden Fork or Weeder—Fig. 17. 50c. Weight 1 lb.  
Garden Fork—Similar to above. 25c. Weight 1 lb.  
Excelsior Weeder—Five teeth. Fig. 15. Price, 20c. Weight 1 lb.

M. & S. One Piece All Steel Weeder—Fig. 12. 35c. Parcel post weight, 1 lb.  
Magic "EZ" Weeder—Fig. 13. Light in weight, strong in construction; excellent tool; in great favor; best for the price. Three tined. Best quality, No. 8½ steel wire. Nicely tined. Length, 9 inches; weight, 4½ oz. Black enameled handle, No. A. Price 15c; weight, 1 lb.; No. D, large size, 4-tined with hoe or scraper on back. Price, 45c; weight, 2 lbs.  
Dibbles, or Planting Pegs—Bent wood handle. 75c. Weight, 1 lb. Fig. 20.  
No. D. S. T. Steel Shank Trowel—Best trowel made. \$1.00. Parcel Post weight, 2 lbs.  
Planet Jr. Edger, No. 2—Fig. 18. Made of best material, extremely simple and easy to operate. Price, \$1.75, postpaid.

"Keen Kutter" Turf, or Lawn Edger—For edging walks. Price, \$1.10. Fig. 11. See foot rest.  
All-Steel One-Piece Trowels—No. 212, 50c; No. 215, riveted shank. Price, 30c. Parcel Post weight, 2 lbs.  
German Transplanting Trowels—No. 216, 6 inch, weight, 1 lb. Price, 25c.  
M. & S. One-Piece All-Steel Trowel—Indestructible. Fig. 16. Price, 40c. Parcel Post weight, 2 lbs.  
"Keen Kutter" Rake—Bow Pattern. Fig. 6. 14-tooth, \$1.25. Regular pattern 16-tooth, \$1.10.  
"Queen" Lawn Rake—With handle, 24 teeth, 75c; 36 teeth, \$1.50.  
"Ole Olsen" Lawn Rake—All wood, 26 teeth, hickory wood, with handle, \$1.00; less handle, 75c.  
Wood Leaf Rake—Reinforced with 3 heavy wire bows, has 24 teeth. Price, \$1.25.  
Potato Hook, or 4-pronged Hoe—Price, \$1.00.  
"Keen Kutter" Bush Hook—Fig. 21. Made of the best material. Price, \$1.75.  
"Keen Kutter" Scythes—Fig. 10. 32 and 34 inches long. Price, \$2.00.  
Bush Scythes—18-22 inches long. Price, \$2.00.  
Weed Scythes—24 and 28 inches long. Price, \$2.00.  
Snathes—Light and heavy. Price, \$1.50.  
American Talacre Stones—25c each.  
Whetstones—Carborundum, 35c.  
"Keen Kutter" Ax—Guaranteed article, \$2.00.  
K. K. Hatchets—Half Pattern. Best quality. Each \$1.50.  
Special Price to Florists and Gardeners.

### Norcross Cultivators and Weeders

These are the most modern tools for garden and flowers. They are light and strong and cultivate closer to plants without injuring them than other kinds of implements, leaving the soil level, loose and untrampled. Detachable Steel Prongs. Malleable Head. Extra High-Grade Handles. Fig. 14.  
The "Norcross" line is of the highest quality and finish throughout.  
Three sizes and prices: 5-pronged, 4 ft. handle, \$1.00; 3-pronged, 4 ft. handle, 75c; "Midget," 9 in. handle, 40c. Weight, 3 lbs., 2 lbs., 12 oz.



## PLANET JR. GARDEN TOOLS

Are the greatest savers of time, labor, and money ever invented for the farm and garden. They pay for themselves in a single season in bigger and better crops, and last a lifetime. Fully guaranteed.

### Planet Jr. No. 4 Combined Seeder and Cultivator

This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe.

No. 4-D (As a Seeder only) \$14.50.

### No. 25 Combined Seeder, Double and Single Wheel Hoe

As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 inches high. Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes. The most complete of the interchangeable tools. Price, \$22.00.

### Planet Jr. No. 31 Combined Drill Seeder and Single Wheel Hoe

A combined machine at a low price for the private gardener. The index is easily set, it will sow even a packet of seed and flow of seed is stopped by simply raising the handles. Also can be used as a single wheel hoe. Illustration shows the cultivating attachments. Price, \$12.50.

No. 31-D—The drill part only of the above machine. Attachments can be purchased at any time. Price, \$10.00.

### No. 33 Planet Jr. Single Wheel Hoe

Just the thing for the family garden. Young or old will find in this tool a light-running wheel hoe that will save them hard work and help much to supply the table with fine vegetables, can be operated by a lady or child with ease. All complete like illustration. Price, \$6.00.

#### 72-PAGE PLANET CATALOGUE FREE

Describes 70 tools, tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.

### Planet Jr. No. 12 Double Wheel Hoe

A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price, \$11.50.

No. 11 PLANET JR.—Like the above, but in addition has one pair 4½ inch hoes, two 3-tooth rakes and two 5-tooth rakes. Price, \$14.75.

No. 13 PLANET JR.—Only equipped with one pair of 6-inch hoes. Price, \$8.25. The No. 12 is the most popular tool.

No. 14 PLANET JR.—Double and Single Wheel Disc Hoe, Cultivator and Plow. Price, \$13.25.

### Planet Jr. No. 16 Single Wheel Hoe

These single wheel hoes are the highest type of their class. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do. Nos. 16 and 17 have the same steel wheels, frames and handles, but the attachments sold with each vary. The handles are adjustable in height. The frame is steel, convenient and

strong with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil tempered and specially hardened, finely formed, finished and polished and work to a charm. Price, \$9.25.

### No. 17 Single Wheel Hoe.

No. 17½ PLANET JR.—Same as No. 17, but has no plow, but in addition has a leaf lifter. Price, \$7.00.

No. 18 PLANET JR.—Only equipped with one pair 6-in. hoes. Price, \$5.75.

### M. & S. Porcupine Cultivator

Must be seen to be appreciated. Fine for running over lawn, before applying seed and fertilizer. Made very strong and durable. Price, \$5.00.

No. 65 SLIDE HOE—Price, \$6.50.

PLANET JR. STAR PULVERIZER—Price, \$6.50.

PLANET JR. GRASS EDGE—Price, \$6.50.

Do not forget to order that bag of sheep manure, with your spring order, it will do your garden as much good as a cart load of green manure.

### No. 119 Planet Jr. Garden Plow and Cultivator

This new member of the "Planet Jr." family is equipped so completely that it will meet all the needs of the ordinary garden. It has a 24-inch wheel 1½ inch wide. The plow is very strong the cultivator tooth is good and wide the 3-pronged Cultivator is excellent for breaking of the soil, the center tooth of same is removable the scuffle hoe fine for weed cutting and the handles very strong and adjustable to suit adult or child. Price, complete, \$5.00.

### "Firefly" Garden Plow

Very useful for small gardens. Will throw furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrow for manure or seed can be opened and covered. Chicken raisers find it of great advantage in plowing up the scratching yards. Price, \$4.00.

Be sure and write for our 1923 Free Fall Garden Book. It tells you how to raise bulbs in and out doors.

Published about  
September 15th.

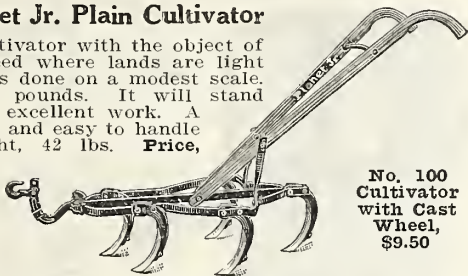


# Planet Jr. One-Horse Cultivators and Harrows

## No. 100-D Planet Jr. Plain Cultivator

We offer this cultivator with the object of filling a definite need where lands are light or where farming is done on a modest scale. It weighs but 42 pounds. It will stand hard usage and do excellent work. A steady running tool and easy to handle and adjust. Weight, 42 lbs. Price, \$8.00.

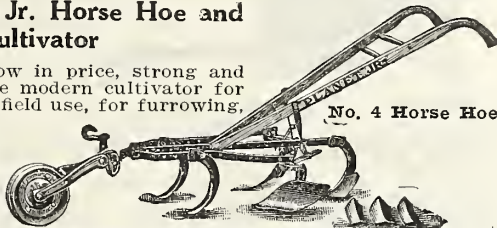
**No. 4 PLANET JR. PLAIN FIVE-TOOTH CULTIVATOR**—This popular tool has been much stiffened and improved by new patent braces and expanders. Price, with steel wheel, \$11.25; without wheel, \$9.25.



No. 100 Cultivator with Cast Wheel, \$9.50

## No. 4 Planet Jr. Horse Hoe and Cultivator

This tool is low in price, strong and simple. It is the modern cultivator for either garden or field use, for furrowing, covering and cultivating. Price, with steel wheel, \$14.00; without wheel, \$12.00.



No. 4 Horse Hoe

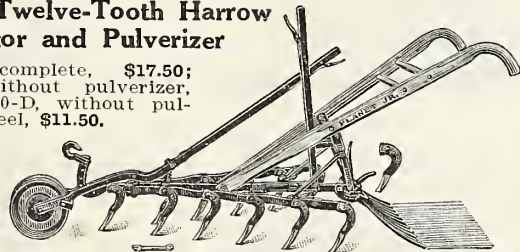
**No. 9 PLANET JR. HORSE HOE AND CULTIVATOR**—Identical with the above, but has lever expander. Price, with steel wheel, \$15.50; without wheel, \$13.50.

**No. 7 PLANET JR. HORSE HOE AND CULTIVATOR**—Same tool as No. 4 and No. 9, but is also equipped with depth regulating level wheel. Price, \$16.75.

## Planet Jr. Twelve-Tooth Harrow Cultivator and Pulverizer

No. 90, complete, \$17.50; No. 90-B, without pulverizer, \$14.75; No. 90-D, without pulverizer or wheel, \$11.50.

The chisel-shaped teeth in this tool go as deep or shallow as you like, close to row, without injuring plants, cut out all weeds, stir the soil and mellow and fine it as with a garden rake. Any width from 12 to 32 inch. The wheel won't clog; the pulverizer leaves the ground in perfect condition for seeding or plant setting.



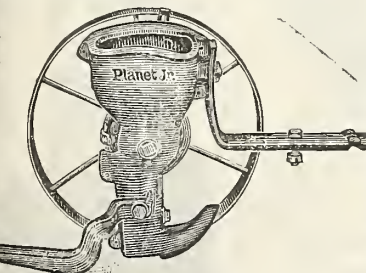
### Planet Jr. Cultivator Teeth.

2 1/2 x 8 in. Steels	.....\$0.16	1 1/2 x 10 in. Steels	.....\$0.20
3 1/2 x 8 in. Steels	......18	1 3/4 x 10 in. Steels	......23
4 1/2 x 8 in. Steels	......21	2 1/4 x 10 in. Steels	......26
5 x 8 in. Steels	......24	3 x 10 in. Steels	......32
5 1/2 x 8 in. Steels	......28	4 x 10 in. Steels	......36

"Planet Jr." 7-inch Hind Shovel, 35c; "Planet Jr." 8-inch Hind Shovel, 40c.

## The Planet Seeder Attachment No. 35

Will pay for itself in a short time because it saves seed by sowing accurately. Sowing by hand wastes seed. It is very easy to operate and drills almost any kind of garden seed from the smallest up to peas and beans. It will drill a 5-cent package of seed just as accurately as a larger amount. The index is in plain view and easily adjusted. The shoe is adjustable for any depth desired and the coverer swings free. Attaches to any Planet Jr. Hand Cultivator. Sent postpaid. Price, \$6.00.



**THE MIDGET SEEDER** sows the seed and covers up, all in one operation. It is inexpensive, and with ordinary care will last a lifetime. It is sold with handle complete, or may be easily attached to almost any wheel cultivator. Weight, 6 lbs. Price, \$4.00, postpaid.

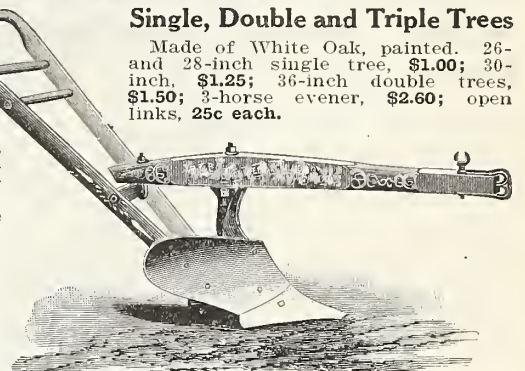
# Plows, Cultivators, Repairs, Etc.

## Single, Double and Triple Trees

Made of White Oak, painted. 26-inch and 28-inch single tree, \$1.00; 30-inch, \$1.25; 36-inch double trees, \$1.50; 3-horse eveners, \$2.60; open links, 25c each.

**U-Bar Steel Double and Single Tree, complete.** 30" or 36" Double and 26" Single Trees, \$3.00 per set.

## Oliver Pattern Wood and Steel Beam Plows



In fit, quality and finish, guaranteed the equal of the best. List price for Oliver Pattern Plows and repairs:

	Wood Beam Plow	Steel Beam Plow	Shares	Slip Shares	Lands	Mould-boards	Wood Beams
No. A	.....\$ 8.75	\$ 8.75	\$0.35	\$0.45	\$0.60	\$2.00	\$2.75
No. B	..... 9.50	9.50	.40	.....	.90	2.75	3.00
No. 10	.....12.75	12.75	.50	.65	.90	3.00	3.00
No. 13	.....14.25	14.25	.60	.75	1.20	3.75	3.25
No. 19	.....15.75	15.75	.65	.80	1.30	4.00	3.65
No. 20	.....16.00	16.00	.75	.90	1.30	4.50	3.90
No. E	.....17.50	.....	.75	.90	1.30	4.75	4.10
No. 40	.....17.50	17.50	.80	.95	1.30	4.75	4.35

In ordering, mention "Wood" or "Steel" beam, right or left-hand.

Prices for plows include extra Share and Wrench. The following are extra: Wheel, complete, \$1.75; Jointer, complete, \$3.50; Steel Beam-Jointer, \$4.50.

**MOON ROLLING COULTERS**—8 in. \$5.00; 10 in. \$6.00; 12 in. \$7.00.

Handles, complete, for Wood Beam, A to 10, \$1.85; 13, \$2.00; 19 to 40, \$2.50.

Single Handles, 75c. Rounds, 20c a pair.

Bolts for Mouldboard, Landside, Shares and Jointers, 5c each. We can also furnish the "Syracuse" and other leading plows and the repairs. Prices will be furnished upon application.

## SHOVEL PLOWS

Single Shovel Plow, \$4.25. Double Shovel Plow, \$4.80. Triple Shovel Plow, \$7.00. Blades for same, 16c lb.

## CULTIVATOR TEETH AND REPAIRS.

	Price		Price
Diamond Point, 1 1/4 in.	.....\$0.15	Horse Hoe Steels, R. & L.	
Diamond Point, 2 in.	......16	Plt. Jr. with bolts, each	\$0.75
Diamond Point, 2 1/2 in.	......17	Turn Shovels, R. & L., each	.35
Diamond Point, 3 in.	......18	Cultivator Clamps	.50
Diamond Point, 4 in.	......20	Set Screw Cultivator Clamps	.50
Oval or Jersey	......19	Cultivator Handles, Complete	1.75
Frame and Teeth Bolts, 3 1/2 c.		Single Handle	.90

# Feed, Clover and Root Cutters

PRICES SUBJECT TO CHANGE WITHOUT NOTICE ON ALL MILLS AND CUTTERS

## Buch's Hand Lever Feed Cutter

Fig. 5. This cutter is simple, durable and low priced. It has a 11-in. tempered curved knife which can be adjusted to any length of cut desired up to 3 in.; cuts either green or dry fodder. Price, \$6.75.

## Clover Cutter

Price with the balance wheel, \$15.00; with the balance wheel and iron stand, \$17.50.

## Banner Root Cutter No. 7

A practical Machine for Cutting and Preparing Roots and Vegetables for Feeding Poultry. Price \$6.50.

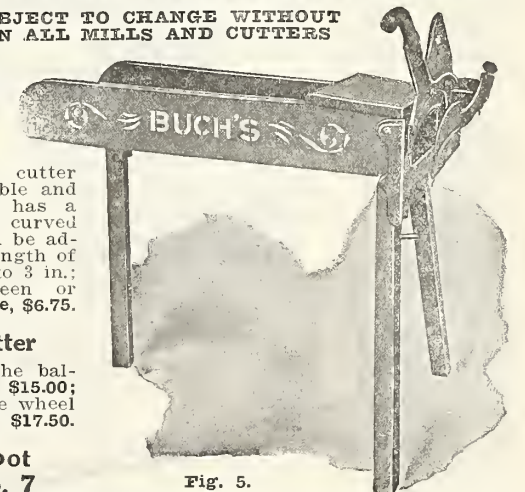


Fig. 5.



# M. & S. HAND SEEDERS AND MISCELLANEOUS SUPPLIES

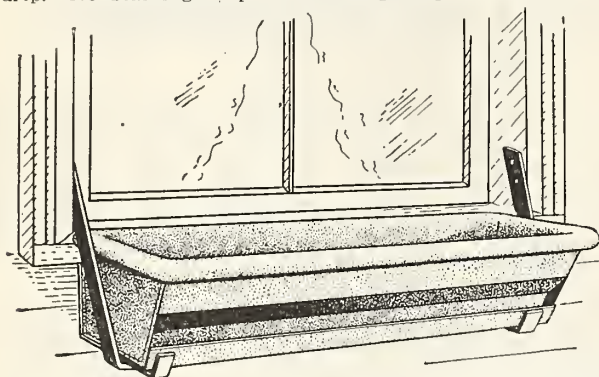
## M. & S. Success Self-Watering Window Boxes

The Success Plant Box is made of strong galvanized iron, neatly enameled in dark green. It is so constructed that the watering is easy, the drainage ample, the air circulation perfect.

The Success Box is made with a water pocket on one side at the bottom. This pocket runs the full length of the box. Leading from it, into the box itself, are openings to convey the water to the soil. To prevent these openings from clogging up a roof-shaped piece of metal extends from the pocket openings to the center of the box, at the bottom.

The pocket is simply filled with water and the soil takes it up. Or, water is poured in the usual way on the top of the soil and the pocket takes care of the surplus. The water outlet also forms an air inlet, conveying the air to the center of the soil, where it distributes to every part.

Plants thrive wonderfully in these boxes. For window or porch use they are ideal, as, unless excessively over-watered, there is no drip. No staining of paint or disfiguring in any way.



The top edges have an attractive rolled finish. They are made in a number of lengths to suit different places and purposes, and may be equipped with brackets for securely fastening them to window sills or hanging below them, also to porch rails.

Length, Inches.	Width, Inches.	Depth, Inches.	Weight, Pounds.	Each.
24	8 1/2	6 1/4	6	\$1.75
30	8 1/2	6 3/4	7	2.00
36	8 1/2	6 3/4	8	2.85
42	8 1/2	6 3/4	10	3.75
12	12	8 1/4	5	2.25

Brackets for Window Boxes	Per Pair.	Pounds.
No. 1—For setting on sill.....	\$0.80	3
No. 2—For hanging under sill.....	1.00	3
No. 3—For the porch rail.....	.50	1

## Pop Corn

There is hardly a home in the country during winter where popping of corn is not a pastime. Not all Pop Corn is the right kind for popping. What we offer can be relied upon for popping or popping.

White Rice—Lb. 10c.  
Special price in quantity.



## Sheet-Iron Corn Popper



Parcel Post weight, 2 pounds. Price 50c.  
M. & S. All Wire Corn Popper—Capacity 1 qt. 25c. Parcel Post weight, 1 lb.

## M. & S. Tin Horn Seeder

Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left, which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube, and the wind has no chance to blow seed into bunches before it strikes the ground.

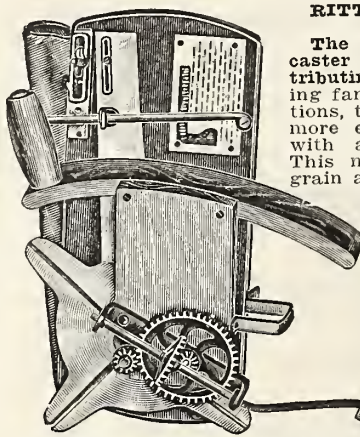
Cheap, durable, weighs only 12 ozs. Simple; no repairs. Will

sow 60 acres per day of clover, timothy, millet, alfalfa, etc.  
Parcel Post weight, 1 lb. Price 75c.

## Grass and Clover Seed Sowers

### RITTENHOUSE DOUBLE FAN SEEDER No. 3.

The most efficient hand broadcaster ever invented, double distributing wheel—The two distributing fans revolve in opposite directions, throwing the grain further and more evenly than from any seeder with a single distributing wheel. This means a more even stand of grain and a larger yield, that in one season pays the cost of the Rittenhouse Seeder many times over. The material used in making this seeder is of the very best—the seeder is well painted—runs very lightly—and lasts a lifetime. The Rittenhouse Seeder is suspended from the shoulder at the side, and is far more convenient to handle than seeders which must be hung around the neck. Price \$1.75. Parcel Post weight, 6 lbs.



SEGMENT CORN PLANTER—Sliding Feed. Price \$2.50. Parcel Post weight, 6 lbs.  
Picking Baskets—1/2 bushel size, 45c each.  
White Oak Baskets—Side handled, 1 bushel \$1.40.

Splint or Chip Baskets—With handle, 1/4 bu. size, 15c; 1/2 bu. size, 20c.

Pea Bags—Used by Anne Arundel farmers for bringing peas and beans to market. For quantities write for price.

Strawberry Boxes—1 qt. size, 10c doz.; per 100, 75c. Per 1,000, prices furnished on application.

Asparagus Buncher—See page 4.

Trace Chains—7 ft., straight link, hook or ring. Price \$1.75 pair. No. 2 cheaper grade \$1.50.

Cow Chains—Tieing out, No. 1 20 ft. 60c; No. 00 heavier grade 20 ft. 75c; No. 00 30 ft. \$1.00; Stable ties, 4 1/2 ft., price 50c.

Back Bands—Cotton duck with snaps 42 in. 75c each; Same with Loop 90c each.

## Rittenhouse Mole Trap

Fig. 21

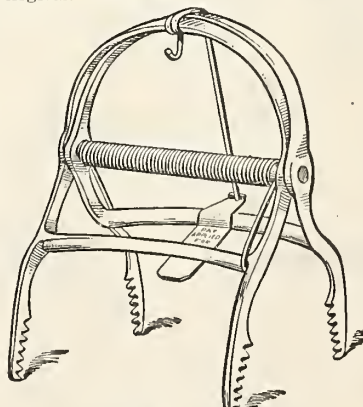
The simplest, safest and surest mole trap ever invented. Self-setting. No danger of its going off unless the trigger is touched. Made of all steel and tinned. The spears are spring steel, therefore, do not have to be as long as soft steel.

Price, \$1.00. Parcel Post weight, 3 lbs.

## Out-o'-Sight Mole Traps

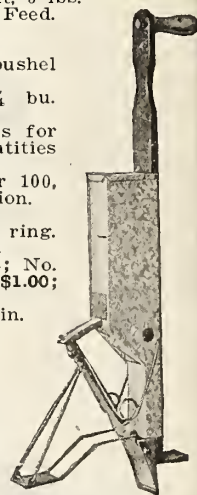
The most complete in existence. \$1.25 each; doz. \$13.50. Parcel Post weight, 3 lbs.

MOLO—A preparation that will clear your lawn of moles and field mice in a few nights. Pkt. 25c.



Out-o'-Sight Mole Trap

Gentlemen: The 300 Barred Rock Baby Chicks arrived in fine condition and are very satisfactory. Have lost none and they are doing well.—Dorsey M. Williams, Ellicott City, Md.



Segment Corn Planter

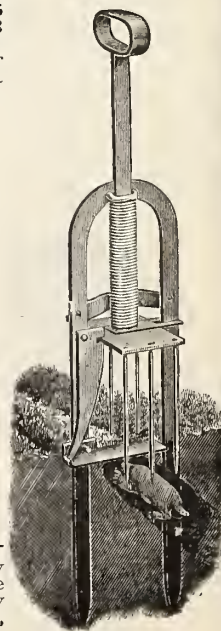


Fig. 21.



## Everlastic Rubber Roofing

Everlastic "Rubber" Roofing is a strong, pliable fabric, with a plain grayish surface.

It is made of the best grade of roofing felt which is first thoroughly saturated with a waterproofing composition and then heavily coated on both sides.

There is only one way to select good roofing. It never fails: **Look at the label before you buy!** If the label reads "Barrett Everlastic Roofing" you are perfectly safe. You are sure of a moderate-priced roof that will give many years of satisfactory service.

1-ply 108 square feet, guaranteed 5 years.....	\$1.75
2-ply 108 square feet, guaranteed 10 years.....	2.25
3-ply 108 square feet, guaranteed 15 years.....	2.75

## Tomahawk Roofing

This roofing is offered as a good average quality product. It will give good service on the roof. Where the highest quality roofing is not necessary this product is recommended.

1-ply 108 square feet.....	\$1.25
2-ply 108 square feet.....	1.50
3-ply 108 square feet.....	1.75

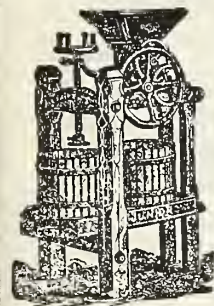
Prices on Roofing Subject to Change Without Notice.

## Cider Mills, Wine or Berry Presses

Prices Subject to Change

**Cider Mills**—Made of best quality wood, carefully bolted and finished.

**Single Cage Mill**—Weight, 140 pounds. Similar to the wine and cider mill illustrated, only it is larger and will take larger apples, and, being a geared mill, will do much more rapid work. Price, \$20.00.



Cider Mill

**Junior** — Capacity, 2 to 4 barrels per day, \$29.00.

**Medium** — Capacity, 6 to 8 barrels per day, \$33.50.

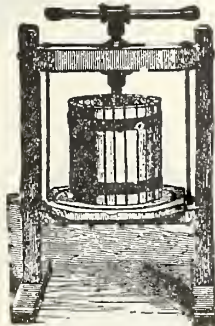
**Senior**—Capacity, 6 to 12 barrels per day, \$50.00.

**Wine, or Berry Presses** — Made of best quality wood, carefully bolted and finished.

**No. 1**—Capacity, 1 peck, \$3.00.

**No. 2**—Capacity, 2 pecks, \$10.00.

**No. 3**—Capacity, 4 pecks, \$16.00.



Wine Press

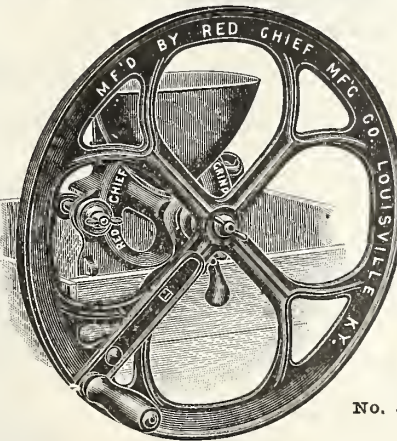
## Mann's Green Bone Cutters

Prices on Application.

**"Red Chief" Grinding Mill**—No. 1. For cracking corn, wheat and other grains. Price, \$4.00. Parcel Post weight, 10 lbs.

**"Red Chief"**—No. 5. Like above but has fly-wheel and larger capacity. Price, \$7.75. Weight, 20 lbs.

**"Red Chief" Grinding Mill**—No. 10. This mill has greater capacity than the No. 5 Mill, and makes an excellent coffee and spice mill for grocers or family use, as well as being a very rapid grinder of chicken feed or meal. Weight, 35 lbs.; capacity, 2 to 4 bus. per hour. Price, \$9.50, with stand.

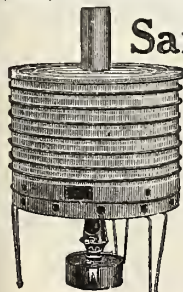


No. 5

## Sanitary Fruit and Vegetable Evaporator

A practical machine for drying all kinds of vegetables and fruits for home use. A patriotic duty. The National Food Garden Commission says: "Drying vegetables and fruits for winter use is one of the vital national needs. As a national need it becomes a patriotic duty. As a patriotic duty it should be done in every family." Send in your order for one, and it will pay for itself this fall.

Price, complete, with lamp, \$2.00. Postpaid.

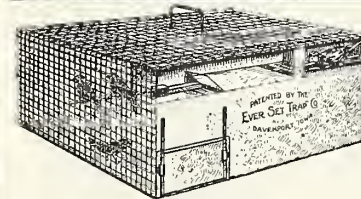


## Barrett Liquid Elastigum

Barrett Liquid Elastigum is a cement in liquid form that gives new life to old roofs. It forms a tough, impervious coating over the entire roof, closing cracks and small holes that would otherwise admit moisture, thus making the roof practically one solid piece and, as far as utility goes, almost as good as new. It spreads readily and any one can apply it. Price, \$1.25 per gal.; 5 gal. \$4.00.

## The Ever-Set Sparrow Trap

Will reduce the sparrow pest on your property to a minimum. The Ever-Set Trap is entirely automatic in action; simply set trap in your garden, poultry

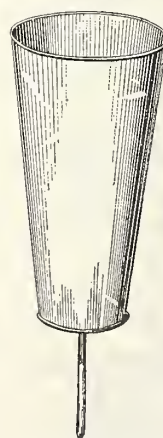


yard, or other spot frequented by sparrows. Bait with grain or chicken feed. The first sparrow caught acts as a decoy to others and in a very short time the entire sparrow population near your property is either caught or frightened away. One Ever-Set Trap caught 1,529 sparrows from June to October in a city yard. Think of the damage these pests could have done in 5 months. Fifty sparrows will eat a bushel of grain a month. The Ever-Set Trap is strongly constructed from 5/8-inch galvanized hardware cloth. In ordinary use it is practically indestructible. It costs nothing to operate, there is nothing to get out of order.

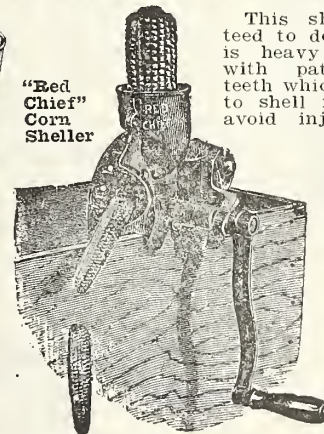
The trap comes complete with full instructions for use and a receiving cage for removing the captured sparrows.

The English sparrow must go. State and National governments, farmers, fruit growers and poultry raisers have declared war in earnest. The counts against the sparrow are many, the destruction of grain, fruits and young vegetables, the driving away of the useful native songbirds, and the filthy condition of buildings where sparrows nest will not be tolerated. The Ever-Set Trap is the easy, safe way to get rid of these pests. Sent postpaid, Price, \$5.00.

## "Red Chief" Corn Sheller



"Red Chief" Corn Sheller



This sheller is guaranteed to do good work. It is heavy in construction, with patent oval-shaped teeth which are so arranged to shell more rapidly and avoid injuring the grain,

thus making it safe for shelling seed corn. Adjusts itself to any size ear. Price, each \$2.75; weight, 12 lbs.

**CEMETERY BOUQUET HOLDERS**—5x9 1/2 inches, 30c each postpaid.

**RATS AND MICE DESTROY MILLIONS OF DOLLARS WORTH OF FEED. GET RID OF THESE RODENTS BY USING VICTOR RAT AND MICE TRAPS.**

**Victor Rat Traps**—20c each; \$1.50 dozen, postpaid.

**Victor Mice Traps**—5c each; 40c dozen; postpaid.

**The Faultless Rat Trap**—This trap will catch and kill them every time. 50c each. Parcel Post weight, 1 lb.



**Wire Cage Rat Traps.**

The kind that catches them alive. \$1.00 each, postpaid.





Fig. 6

**RICE'S CALF WEANER**—Fig. 6. Very effective for weaning calves and preventing cows sucking themselves. No. 1, for calves, 40c; No. 2, for heifers, 65c; No. 3, for cows, \$1.00; postpaid.

**BULL RINGS**—Copper, 40c apiece. 3 inch. Postpaid.

**BAG BALM**—For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as Bag Balm. 65c, postpaid.

**KOW-KARE**—Valuable for run-down cows. 65c and \$1.30, postpaid.

**CALF MEAL**—The best milk substitute. 1 lb. 8c; 25 lbs. 75c; 50 lbs. \$3.25; 100 lbs. \$6.50.

**E-Z-BOS COW SPRAY AND LICE KILLER**—E-Z-Bos kills flies and keeps them off all day. E-Z-Bos is a stainless oil. It will not discolor or mat the hair. It actually does kill! Flies drop to the floor dead. Lice die in their tracks. No fly too big. No fly too small. E-Z-Bos gets them all. Once tried always used. Satisfaction guaranteed or money refunded.

As a disinfectant stables should be thoroughly sprayed with E-Z-Bos once a week in winter as well as in summer. This is a great preventive of tubercular trouble and abortion among the cattle. Lice and mites are never found in poultry houses that are sprayed thoroughly once in two weeks with E-Z-Bos Fly and Insect Killer. E-Z-Bos is highly useful as an aid for the disinfection of stables, barns, outhouses and other such places. Price, 1 Gal. \$1.65; 2 qts. \$1.00.

## Sal-Vet

**The Great Worm Destroyer—The Great Live Stock Conditioner.**

**SAL-VET** is a medicated salt—a safe, simple, inexpensive remedy which gives stock the medicines they need along with the salt they crave. It requires no dosing, no drenching, no starving. It goes into the stomach and intestines and loosens the worms. It drives the robbers out—without bother or trouble to you. Your animals eat **SAL-VET** in place of common salt and thus doctor themselves.

5-lb. package "Sal-Vet" .....	at \$0.75 each
15-lb. packages "Sal-Vet" .....	at 1.65 each
40-lb. packages "Sal-Vet" .....	at 3.60 each
50-lb. pail "Sal-Vet" .....	at 4.00 each
100-lb. kegs "Sal-Vet" .....	at 7.50 each
200-lb. barrels "Sal-Vet" .....	at 13.50 each
300-lb. barrels "Sal-Vet" .....	at 18.00 each

**SAL-VET HOG OIL**—5 gallon, \$4.00.

**PRATT'S ANIMAL REGULATOR** is a regulator, digestive and mild tonic. The ingredients consist of pure medical roots herbs and barks, carefully blended in the exact proportions necessary to gently but surely act on the blood, bowels, liver and digestive organs of horses, cows, sheep and hogs. It causes perfect digestion. Pkg. 25c, 50c and \$1.00; 12-lb. pail, \$2.15; 25-lb. pail, \$3.40; 200-lb. drum, \$5.85; 100-lb. drum, \$11.40.

**\*PRATT'S WORM POWDER**—For destroying worms in horses, cows, hogs and sheep. Box 50c. Weight, 1 lb.

**\*PRATT'S LINIMENT**—For man or beast. Bottle \$35c and 75c. Liquid.



**PRATT'S HEALING OINTMENT**—For man or beast. Box 30 and 60c. Parcel Post weight, 1 lb. each.

**\*PRATT'S HEALING POWDER**—For harness galls. 30c. Parcel Post wt. 1 lb.

**\*PRATT'S VETERINARY COLIC REMEDY**—Bottles 75c and \$1.50. Express only.

**\*PRATT'S DISTEMPER AND PINK EYE REMEDY**—Bottle 70c. Express only.

**\*PRATT'S HEAVE COUGH AND COLD REMEDY**—Price 50c. Parcel Post wt. 1 lb.

**\*PRATT'S COW REMEDY**—Pkg. 60c and \$1.20; 12-lb. pail, \$2.75; 25-lb. pail, \$5.00.

**\*PRATT'S BAG OINTMENT**—40c and 80c, postpaid.

**\*PRATT'S HOG TONIC**—Pkg. 50c and \$1.00; also in 25, 50 and 100-lb. bags. Price \$3.00, \$5.00 and \$10.00, respectively.

**BITTER LICK**—For horses and cattle of all kinds. Price of brick, 35c.

**HOLDERS FOR BITTER LICK BRICK**—Made of iron and japanned black. Price each, 30c.

## Wagner Swift Service Fruit Presses and Lard Presses

Simple in construction. Efficient in their work.

Size.	Price.
2 quarts .....	\$3.25
4 quarts .....	4.25
6 quarts .....	5.00
8 quarts .....	5.50



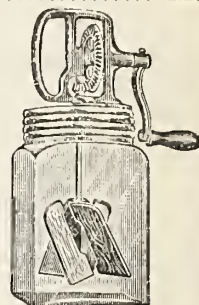
## Brooms and Brushes

Plain Corn Brooms, extra quality. \$1.00  
Bass Push Broom, 14 inches. (See cut) ..... 1.25  
Handles for Push Brooms, 25c each.

## Dazey Glass Family Churn

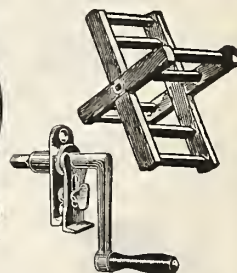
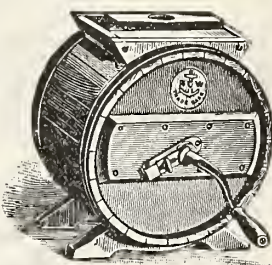
Fig. 2. 'Easy running, easy to clean, produces the finest butter that can be made.

No. 20G, churning 1 qt. \$2.00; No. 30G, 1½ qts., \$2.25; No. 40G, 2 qts. \$3.00. Add 25c each size if to be sent by Parcel Post.



## IMPROVED CEDAR WOOD CYLINDER CHURN

No. 1—3 gal.	\$4.25
No. 2—4 gal.	\$4.75
No. 3—7 gal.	\$5.50
No. 4—10½ gal.	\$6.50



## Baltimore Pattern Hand-Made Butter Print

This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. ½-lb. Sheaf of Wheat Print, \$1.25; weight, 1 lb. 1-lb. Sheaf of Wheat Print, \$1.50; weight, 2 lbs. ½ lb. Special Prints, carved with Initials, on application.

## SEELEY PATTERN BUTTER PRINTER

Furnished with sheaf of wheat. Movable block. ½ lb. 75c. Weight, 1 lb. 1 lb. 90c. Weight, 2 lbs.

**PARCHMENT BUTTER PAPER**—Cut for pound and half-pound prints. Price, 35c lb. Special price on quantities.

**WELLS, RICHARDSON & CO.'S BUTTER COLOR**—The best butter color on the market. Small bottle, colors 500 lbs. 35c; large bottles, 75c and \$1.40.

**FLOATING DAIRY THERMOMETER**—30c; postpaid, 35c. Prices Subject to Change Without Notice.

## Thrift Jars

Lighten labor, save time and prevent spoilage. They are easily sealed before processing and the seal is tight and permanent.

### Price List

No. 33—Quarts with caps,	\$1.40 per doz.
No. 32—19 oz. with caps,	\$1.15 per doz.
No. 3—Sealer, \$2.50 each.	
No. 3—P Caps, box of 6 dozen,	\$2.15.



## Grape Protecting Bags



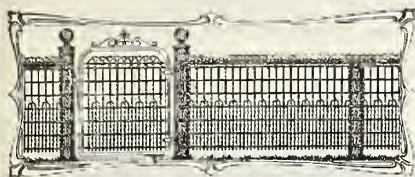
If put on during the period when grapes are forming they will save many times their cost in the amount of fruit they will save from insects, rot, birds, etc. All ready to fasten. Price, 15c doz.; 85c 100; \$8.00 1,000. Parcel Post weight, 2 lbs. per 100; 15 lbs. per 1,000.

Bag all grapes to keep them from insect stings.



# WAUKEGAN-CYCLONE AND AMERICAN SANITARY WIRE FENCING

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Style F Cyclone Fence

Price per lineal foot, Style "F," 36 in., 16c; 42 in., 18c; 48 in., 20c; 60 in., 27c. Full 20 Rod Rolls less 10%. Three-foot ornamental walk gates to match; first three heights of fence, \$4.25 each.

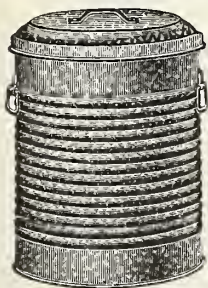
## Universal Walk Gate

Made of heavy high carbon steel tubing, non-breakable frame with Style "F," chicken-tight fabric; hinges and latch to hang to wood posts.

Heights, 36 in., 42 in. and 48 in. Three-foot opening.  
Price, \$3.00, \$3.25 and \$3.75.

## Drive Gates

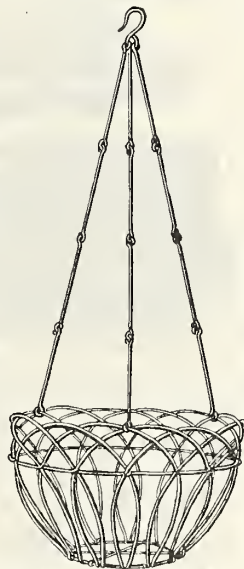
Single Ornamental Drive Gates 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$8.50, \$9.50 and \$11.50.  
Double Ornamental Drive Gates, 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$9.50, \$11.50 and \$12.50.



## Storage or Ash Can

Galvanized, deep cover, rat and damp roof. Excellent for storing grain or dry mash. No. 77, capacity, 2½ bu.

Price, \$2.50.

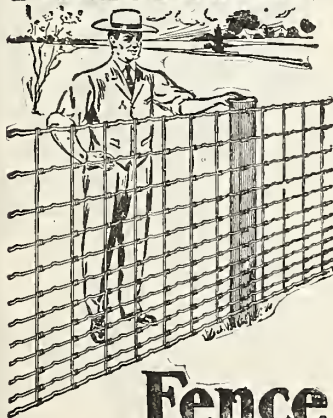


## Wire Hanging Baskets

Help make the city beautiful by installing wire hanging baskets and window shelves filled with beautiful flowers. Made of good heavy wire. Painted green. See illustration.

Baskets, 8-in., 25c; 10-in., 35c; 12-in., 45c. Parcel Post weight, 2 lbs. each.

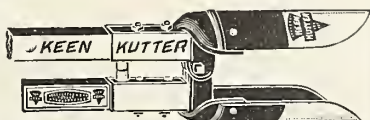
# American



# Fence

## Posthole Digger

Highest Grade Crucible Steel Blades, 12 Gauge, 9 in. deep, 5 in. wide, riveted to heavy shouldered Malleable Iron Frame, with closed handle sockets, 4 in. deep; select ash handles with graduation marks in ft. burned on, from 2 to 4 ft.; will dig hole 6 in. in diameter. Price, \$2.25.



"Keen Kutter" Posthole Digger

## "AMERICAN" POULTRY AND STOCK FENCE

"American" Poultry and Rabbit Fence — For poultry yards, gardens, orchards and yards; it is a great favorite. 165 running feet, 48-in., \$7.75; 53-in., \$8.25; 58-in., \$8.75.

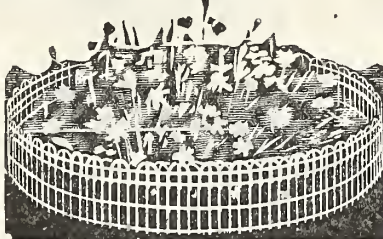
AMERICAN GALVANIZED STEEL FENCE POSTS AND GATES—Prices on application. Send for Special Descriptive Catalogue and Prices.

### Banner Poultry Fence:

36-in. 165 ft. .... \$5.25  
48-in. 165 ft. .... 6.25  
60-in. 165 ft. .... 7.25  
72-in. 165 ft. .... 8.25

### Field Fence:

726x6. 165 ft. .... \$6.00  
832x6. 165 ft. .... 7.00  
949x12. 165 ft. .... 6.00  
1158x12. 165 ft. .... 7.25



## Perfection Flower-Bed Border

Fits any shape or size of flower-bed. No posts required. Cut to any length. Bottom of pickets left straight to be inserted in the ground. Made in three heights. Price, per lineal foot, 16 in., 9c; 22 in., 10c; 28 in., 11c.

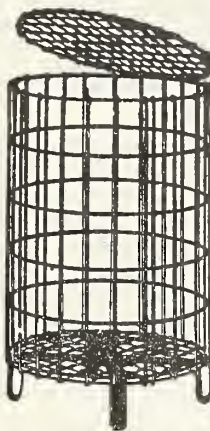


FIG. 1

## Wire Trellis

Just the thing for climbing plants and flowers. Cut to any length; fits any porch. The most inexpensive practical trellis made. Furnished in three widths. Style single.

Price, per lineal ft., 18 in., 12c; 24 in., 14c; 30 in., 16c.

## Rubbish Consumers

Burns waste paper, rubbish and all combustible materials without scattering and without danger from fire.

Made of large heavily galvanized wire with reinforced bottoms and sides, and inside iron rings.

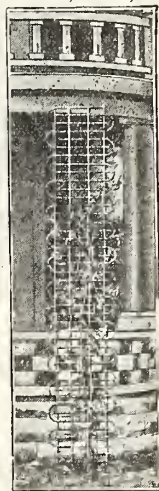


FIG. 2

### STYLE A—Made in Four Sizes.

No. 1—Height, 20 in.; diameter, 14 in.; weight, 5 lbs. Price, \$1.50  
No. 2—Height, 24 in.; diameter, 15 in.; weight, 7 lbs. Price, 1.75  
No. 2½—Height, 30 in.; diameter, 18 in.; weight, 9 lbs. Price, 2.25  
No. 3—Height, 35 in.; diameter, 20 in.; weight, 11 lbs. Price, 3.00

## Diamond Mesh Poultry Netting

Put up in rolls of 150 running feet. Galvanized after weaving.

2 in. No. 20. 1 in. No. 20.

	Wire.	Wire.
1 foot .....	\$1.35	\$3.10
18 inch .....	2.00	4.50
24 inch .....	2.50	5.70
36 inch .....	3.40	6.90
48 inch .....	4.50	10.50
60 inch .....	5.60	13.00
72 inch .....	6.75	15.50

2 inch less than roll lots 2c square ft., 1 inch, 3½c. Price subject to change without notice.

Poultry Wire Staples, 10c per lb.  
Hardware Cloth—For lining corn cribs, poultry houses, etc., put up in rolls of 100 running feet. Rat and bird proof. 24-in., 30-in., 36-in., 48-in. Price furnished on application. Less than roll lots, 10c per square foot.

Prices on all kinds of wire and steel goods subject to change without notice.

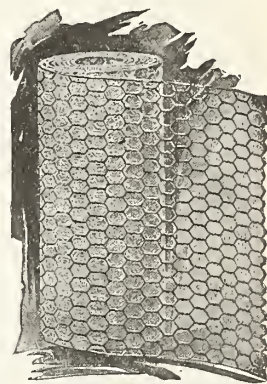


Illustration of 2-inch Diamond Mesh Poultry Wire

Villa Ricou, Lake Ave., Mt. Washington, Md.  
Meyer-Stisser Co.,

Gentlemen:—The M. & S. Giant Stringless Green Pod Beans are not misnamed. After raising other standard species with varying degrees of success and failure I planted for a trial one quart of your Giants in the mid-summer of 1919.

There is no other bean quite so good.  
Sincerely yours,  
JNO. SYLVESTER SMITH.

October 28, 1920.



American Galvanized Steel Fence Post.



## M. & S. POULTRY DEPARTMENT

We carry everything in the line of Poultry Accessories and we cheerfully give free advice how to raise Poultry profitably. M. & S. Wonder Bred Chicks during February, March, April, May, and June (see back inside cover page).

# Lectro-hatch

### ELECTRIC INCUBATORS

Use a Lectro-Hatch Electric Incubator and say good-bye to work and worry in hatching. It eliminates the watching of lamps or stoves and automatically holds the heat at the desired temperature throughout the hatching period. Its steady, even heat, pure air and perfect ventilation mean more and better chicks. You avoid all danger from fire or explosion with a Lectro-Hatch.

**Even Heat, Pure Air.** Electric hatching has been pronounced superior by leading poultrymen and the foremost poultry experts because it insures even heat without continual watching. There is no smoke or gas to stunt or kill the embryo chicks. You have additional assurance of a continuous supply of fresh air because the electric controller box in the incubator creates ozone

or oxygen, which is the life-giving element in air. With the Lectro-Hatch it is not unusual to get chicks from more than 75 per cent of the fertile eggs. Lectro-Hatch users say their chicks are as strong and sturdy on the first day as ordinary chicks from four days to a week old. Because of perfectly normal development in the shell electrically hatched chicks are less subject to baby chick diseases.

### Easy to Operate.

A Lectro-Hatch Incubator can be run from any kind of electric. You do not have to know anything about electricity to run it. First you attach the incubator cord to an electric light socket. Then you adjust the machine to hold hatching temperature by giving one or two turns to a small thumb nut. That's all there is to it. After you make the first temperature adjustment the Regulator, which is an exclusive feature in Lectro-Hatch Incubators, watches the temperature for you.

### Lectro-Hatch Price List.

65-egg capacity, \$28.00; 150-egg, \$38.50; 300-egg, \$68.75; 600-egg, \$123.50. When ordering state voltage.

The 600-egg size is used also as a sectional unit in a mammoth hatchery and can be arranged in decks or in series to suit the needs of any plant. Write us for special information on Lectro-Hatch equipment for mammoth hatcheries.

### Lectro-Hatch Electric Incubator Elements

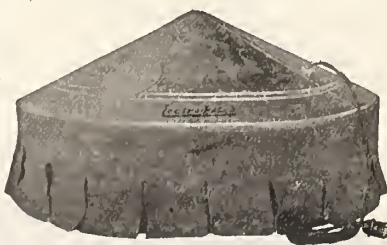
Lectro-Hatch Elements are specially made by electrical experts to exactly fit your Incubator according to specification. When ordering give us the following information: Make of Incubator, Egg Capacity, Shape of Incubator (Round, Square or Oblong), Length of Top Wall or Lid (Inside), Width of Top Wall or Lid (Inside), Thickness of the Top Wall or Lid, Depth of Egg Chamber (Distance inside from Lid to Egg-Tray), Voltage Electric Power to be used. Prices: Any size Incubator up to 150-egg Capacity, \$12.50; Over 150 and less than 400-Egg Capacity, \$15.00, postpaid.

## Lectro-hatch Electric Brooder

Just turn an electric socket button and the Lectro-Hatch Brooder begins to warm up. Same device to maintain constant, even heat as in Lectro-Hatch Electric Incubators. No danger of overheating or fire. No lamps to fill no stoves to tend, no ashes to carry out. No muss or dirt. Lectro-Hatch Brooders really cost less to operate than other style brooders.

Price: 28 inch diameter, 150 chick capacity, \$18.75; 40 inch diameter, 500-chick, \$25.00. When ordering, state voltage.

IF IN THE MARKET FOR A MAMMOTH INCUBATOR, SEND FOR CATALOG.



## Standard Cyphers Incubators

**CYPHERS INCUBATORS** are built to hatch and to last. With proper care—the same care you would give a valuable piece of household furniture—a Standard Cyphers will last an ordinary lifetime. They are guaranteed by us to last ten years without repairs. We make this guarantee because they have lasted much longer than this—and are still doing first-class work.

### Prices:

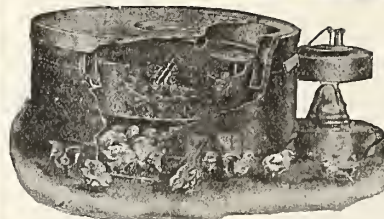
No. 0—70 Eggs, \$33.00  
No. 1—144 Eggs, 42.00  
No. 2—244 Eggs, 56.00  
No. 3—390 Eggs, 69.00

Prices Subject to Change Without Notice.



## Simplicity Incubators

"HAVE NO COLD CORNERS"



Yes, sir! Cold corners and cold side walls in old style incubators don't give your eggs a fair chance! If five eggs out of every hundred don't get proper heat it means an appalling loss to poultry raisers each year! A loss of time—valuable hatching eggs—high-priced oil—and of poultry that is needed so badly for food!

This loss is entirely unnecessary! **Simplicity Incubators** have no cold corners or cold side walls! Side walls are actually heated. The big circular hot-water radiator entirely surrounds egg chamber! Heats from side walls to center! That's why **EVERY EGG** has a chance! That's why it is both the **CHEAPEST AND BEST INCUBATOR** you can buy!

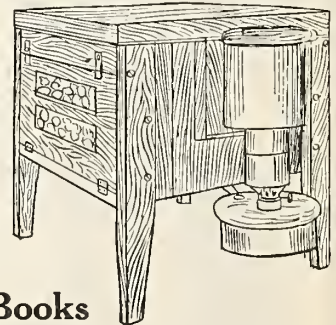
100-Egg Simplicity Incubator, copper tank .....\$17.50

## The Peepy Gem Incubator

This is a low-priced machine which has met with success by thousands of operators. Double walled, cypress wood, double glass door, removable nursery. Heated by patented hot-water system. Complete with lamp, thermometer, egg tester, egg tray and full directions.

Capacity, 50 eggs.

Price, \$12.00, postpaid.



## Practical Poultry Books

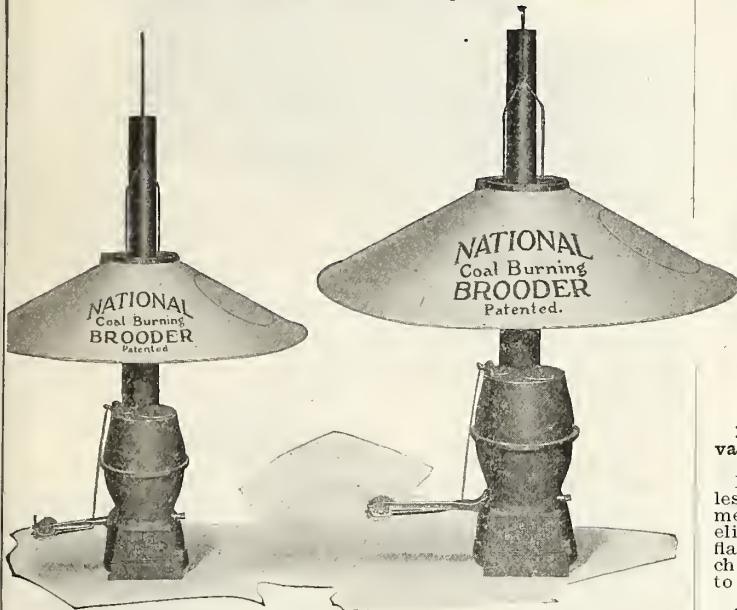
ALL POSTPAID.

The Campines .....	\$ .75	Profitable Culling and	
The Orpington .....	.75	Selective Flock Breeding	1.50
Rhode Island Reds .....	.75	How to Feed Poultry for	
Successful Back Yard		Any Purpose With Profit	1.25
Poultry Keeping .....	1.00	The Fundamentals of	
Artificial Incubating and		Poultry Breeding .....	2.00
Brooding .....	1.00	A to Z of Pigeons .....	.75
The Plymouth Rocks,		Rabbit Culture and Stand-	
Wyandottes, Leghorns,		dard .....	.50
each .....	1.00	Town Lot Poultry Keeping ..	.50
Asiatics .....	.50	<b>The Standard Book of Per-</b>	
Poultry House and Fix-		fection—Everybody who raises	
tures .....	1.00	poultry should have one of	
Chick Book .....	.50	these books. Price, \$2.75.	
Ducks and Geese .....	.75	<b>Reliable Poultry Journal —</b>	
Turkeys, Their Care and		A monthly practical poultry	
Management .....	.75	magazine; one year's subscrip-	
Use of Artificial Light to		tion, \$1.00.	
Increase Winter Egg		<b>Poultry Item—Yearly sub-</b>	
Production .....	1.50	scription, \$1.00.	



# THE BEST BLUE FLAME & COAL STOVES OF THE DAY

## National Coal Burning Brooder



No. A

No. B

### THIRTY DAYS' TRIAL—MONEY BACK GUARANTEE

The National Colony Brooder will do everything we claim. IT IS GUARANTEED THIRTY DAYS AT OUR RISK.

The National can be operated in any room, outbuilding, or coop and will care for chicks until ready for the colony house. The National is absolutely self-regulating and will hold a continuous fire without danger of overheating or going out. The thermostatic control of the National governs the heat in all kinds of weather.

**Fireproof**—The National will not increase the cost of insurance on your house or buildings. It cannot by any possibility set anything on fire, being as safe as any stove or range.

**Burns Any Fuel**—Although we consider hard coal most desirable because of its cleanliness, other fuels such as soft coal, coke, briquettes, etc., can be advantageously used, the only difference found being the need of more frequent cleaning of the flue. Chestnut sizes of coal are best.

**The Hover**—By throwing the heat evenly over the backs of the chicks assures comfort with the desired temperature. Constructed of the highest grade material its solid, substantial, well balanced appearance makes it a pleasure to handle. It is attached to a cast iron collar that fits perfectly over the top of the stove.

**Economical to Operate**—Burning only a few cents worth of coal a day is a National advantage. This is secured by the special stove design which assures the maximum heat from a minimum amount of coal.

### COMFORT MEANS HEALTHY CHICKS

Chicks are comfortable under the National. As with human beings the requirements of little chicks vary. Some people require more or less heat than others. So it is with growing chicks. Only in the coal burning brooder system of which the National is leader is this factor so well provided for. With an abundance of heat furnished by the National stove and deflected downward by the galvanized iron canopy over the backs of the little chicks, the best brooding condition is secured. The exact temperature required for young chicks is secured directly under the outer edge of the canopy. Nearer the stove, the greater the heat and vice versa—less heat farther away. With no confining curtains or walls the young chick under the National decides for itself how much heat it needs. By moving closer or farther from the stove they always find the temperature best suited to their requirements for steady, healthy growth.

**No. A—Capacity up to 500 chicks, \$21.50.**

Height of stove, 21½ in.; diameter of grate, 8¼ in.; diameter of base, 12 in.; diameter of canopy, 42 in. Stove equipped with Rocker Grate, Self-Cleaning and will not clog. Equipment includes Rope and Pulleys for Canopy. Weight—crated for shipment, 80 pounds.

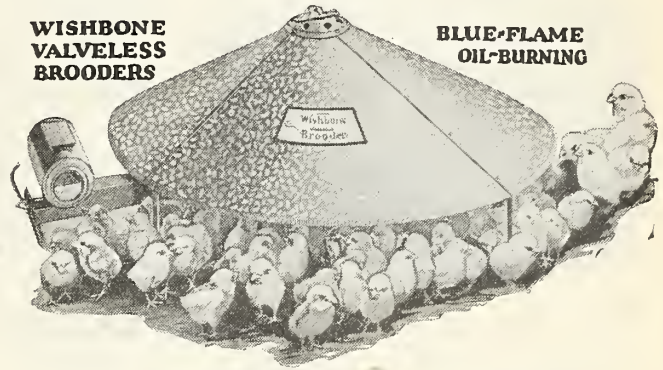
**No. B—Capacity up to 1,000 chicks, \$26.50.**

Height of stove, 23 in.; diameter of grate, 9 in.; diameter of base, 13¼ in.; diameter of canopy, 52 in. Stove equipped with Rocker Grate, Self-Cleaning and will not clog. Equipment includes Rope and Pulleys for Canopy. Weight—crated for shipment, 100 pounds.

## The Best Way to Raise Chickens

**WISHBONE  
VALVELESS  
BROODERS**

**BLUE-FLAME  
OIL-BURNING**



Blue Flame Oil Burner is the Chicks Best Friend; it has no valves to stick, no strainer to clog, no thermostat to go wrong.

Everybody who raises chickens should own a Wishbone Valveless Blue-Flame Brooder. The Wishbone is the most perfect means of caring for chickens that ever has been invented. It eliminates all mess, worry and trouble. It gives a hot blue flame in a jiffy without priming or pre-heating. It raises most chicks. It raises healthier chicks. Therefore, you are bound to make more money out of your chicks.

The Wishbone Valveless Brooder is as simple to operate as a good cook stove. It consists of only four main parts—the tank, the burner, the oil pipe and the hover.

When you want to light the brooder you turn the adjusting handle and touch a match to the burner. A hot blue flame shoots right up. No priming. No pre-heating.

The oil flows down the big half-inch oil pipe as surely and continuously as it would flow through a funnel. And there isn't a valve or thermostat or strainer in the entire brooder to go wrong or start trouble. **THE WISHBONE IS THE ONLY VALVELESS BROODER.** Can be sent by parcel post.

**Simple, Efficient, New and Different.** Sizes and prices. Hover comes in sections with bolts and legs to fasten together.

Heater part completely assembled. All packed in one light, strong crate. Operating Instructions packed in each crate.

No. 22—22 in. Canopy, 50-100 chicks—weight 23 lbs.....	<b>\$10.00</b>
No. 32—32 in. Canopy, 350 chicks—weight 30 lbs.....	<b>16.00</b>
No. 42—42 in. Canopy, 500 chicks—weight 40 lbs.....	<b>19.00</b>
No. 52—52 in. Canopy, 1,000 chicks—weight 48 lbs.....	<b>22.00</b>

Illustrated circular on request.

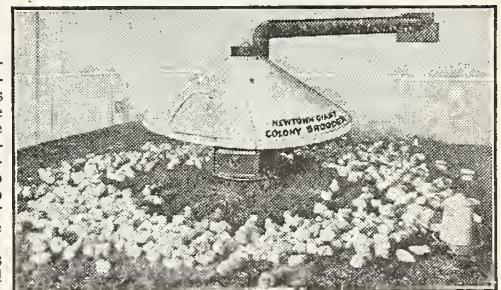
## Newtown Giant Colony Brooder

**Simplest, THE ONE PERFECT BROODER**

**Safest  
and  
Most  
Economical**

It has thoroughly demonstrated its right to be called "The One Perfect Brooder" and is justly claimed to be superior to any Colony Brooder on the market.

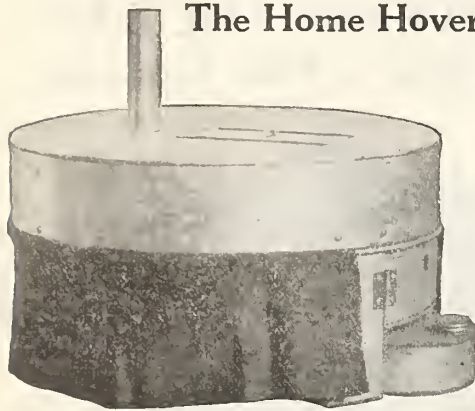
Through years of practical tests and use under all conditions it has been brought to a point of perfection in the details of construction. The Newtown is not an experiment—it has made good. The purchaser of this time-tested Brooder runs no risk; he knows it will give satisfaction. More Newtowns are in successful operation than all other makes of coal-burning Colony Brooders combined.



Size No. 6—Capacity, 200 to 300.....	<b>\$22.50</b>
Size No. 7—Capacity, 200 up to 400.....	<b>25.00</b>
Size No. 11—Capacity, 500 chicks or less.....	<b>32.50</b>
Size No. 12—Capacity, 1,000 chicks or less.....	<b>40.00</b>

Send for Descriptive Catalogue.





## The Home Hover

An Ideal Hover for any number of chicks up to fifty. The Home Hover was designed to meet the requirements of the raiser of a small flock of poultry—around the home or around the farm. It is substantially built and of fire-proof construction throughout. With the exception of the legs the entire hover, including the lamp, is made of heavy galvanized iron. Capacity 50 chicks \$5.50 post paid.

This is used to heat a home-made brooder, which will take the best of care of from 30 to 60 chicks. Instructions for making brooder packed with every heater. A boy can make the brooder in an hour with saw and hammer. The materials need not cost over 25c. The Putnam Brooder Heater holds one quart of oil and will burn 10 days without filling or trimming; needs no other attention. The Putnam Brooder can be operated anywhere and in any climate. It is built on the principle of an open fire-place. It carries out the foul and draws in fresh air, providing continuous ventilation. Heat is radiated from above upon the backs of the chicks just as with the mother hen. The floor of the hover is even with the ground; the chicks have no inclines to learn and don't get lost and cold.

The Putnam Brooder Heater is made of brass and galvanized iron. It is practically indestructible. Price of Putnam Brooder Heater \$4.75 postpaid. Illustrated circular on request.

## The Putnam Brooder



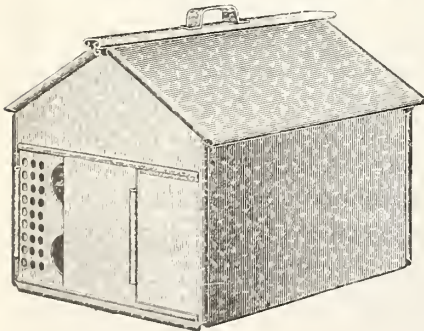
**\$4.75 Post Paid**

**Burns 10 days without attention**

### CYPHERS CENTER LAMP PORTABLE HOVER

This is a Center Lamp Hover. Built of galvanized iron and canvas curtains; the well-known Hover, which has been on the market for years. Capacity, 100 chicks. Price, \$13.50.

## The Delphos Superior Galvanized Brood Coop



Packed flat and can be put together without any tools. The bottom is elevated so chicks are not exposed to dampness, and it can be removed in an instant to be cleaned. All parts slide together in a bead and coop is perfectly rigid. Can be taken apart and packed away flat, occupying very little space when not in use. Rat and vermin-proof. Price, \$3.25. Parcel post weight, 10 lbs.

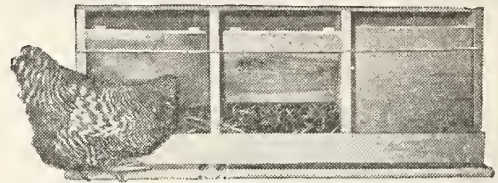
## The "Babie" Chick Feeder (Patented)



Made of best grade galvanized materials, it is rust-proof and will last a lifetime. Will readily accommodate thirty to forty chicks at once. The feed is dropped through the top and the little chicks can eat and drink in contentment without being crowded or trampled by older fowls. It is so designed that it can be placed in front of the "Lawn Park" Coop and securely fastened to make an additional runway of two feet, or it can be used in connection with any brood coop, as the door of the feeder is so made that it will fit practically any brood coop, thus supplying a yard to the ordinary closed coop. Size 6 inches high, 18 inches wide and 24 inches long. Saves feed and chicks. \$1.50 each. Shipping weight, 5 pounds.

## Newtown Practical Trap Nest

The Truly Reliable Detector of the Shirking Hen.



The Practical Trap Nest is a profitable addition to every poultry plant, because it weeds out the drones and cuts down feed bills for the man who wants to keep only those birds that produce. Made in sections of 1 to 5 nests. Strongly built of good lumber, as light in weight as consistent with strength and durability—with a trap that works noiselessly and surely.

Prices, Shipped Crated, Ready for Use:

One Complete Single Nest, 14x18x15 in. ....	\$1.25
One Complete Set of 2 Nests, 27x18x15 in. ....	2.00
One Complete Set of 3 Nests, 40x18x15 in. ....	2.75
One Complete Set of 4 Nests, 53x18x15 in. ....	3.50
One Complete Set of 5 Nests, 67x18x15 in. ....	4.25

## Collins' Oat Sprouters

FRESH GREEN FOOD KEEPS THE CHICKENS LAYING

Every chicken raiser knows that sprouted oats can be grown without lamp—use the natural heat of the house.

8 Pans 11x15 the Popular Size. Weight 14 lbs. ....	\$4.00
5 Pans 11x15 Small Back Yard Flock. Weight 9 lbs. ....	\$3.00
8 Pans 11x32 for Big Business. Weight 28 lbs. ....	\$8.00



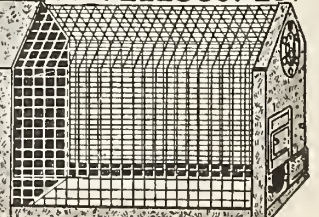
**CLOSE-TO-NATURE HEATED GRAIN SPROUTER — Double quick.** The most efficient and economical sprouter ever invented. Heated by lamp; safe, built for zero temperature. No. 4, 2 bus. or 64 qts., 6 trays, for 200 to 300 hens, \$26.00; No. 3, 1 bu. or 32 qts., 5 trays, for 100 to 150 hens, \$19.00; No. 2, ½ bu. or 16 qts., 4 trays, for 50 to 75 hens, \$13.00. No. 1, 8 qt. 25-30 hen, \$10.00.



**NATIONAL OAT SPROUTER, No. 01—**Six pans of good capacity, heatless. Price, \$6.00.



## IT TELESCOPES!



**PROTECTS THE CHICKS FROM HAWKS, RATS, WEASELS, VERMIN, COLD, STORMS, ETC. SAVES TIME, WORK AND WORRY**

The "Lawn Park" Brood Coop. Pat. May 13, 1919.

It is made entirely of galvanized materials, will not rust, and absolutely protects chicks against rats, cats, dogs, hawks, vermin, cold, storms and all other chick enemies. The metal actually repels lice—that's important. The main part of the coop is made from heavy galvanized steel, while the park is made from strong galvanized wire screen, which has the edges neatly bound and strongly reinforced with galvanized steel. The "Lawn Park" is large and roomy, being 18 inches wide, 19½ inches high, and 48 inches long, with park extended. The coop and the park are of equal length. The park permits the chicks to have plenty of sunshine and fresh air, and also allows them to range on grass. Can be moved from place to place easily, thus giving them a fresh supply daily. Coop has removable bottom for quick and easy cleaning. \$4.00 each. Cannot be sent by parcel post.

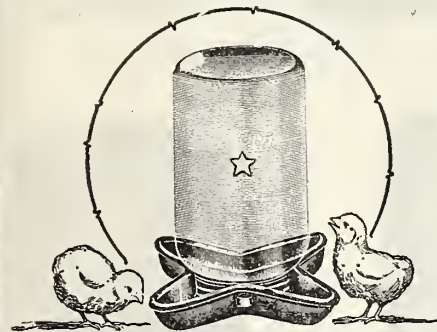


## Little Putnam Stove for Poultry Fountains

This little device will keep water from freezing in zero weather. It holds 6c worth of oil and burns a month without filling or trimming. Fool proof and fire safe. Used under any can, crock or fountain.

Over 80% of an egg is water. To get lots of eggs in winter, you should keep unfrozen water constantly before your fowls. One cold day with water frozen, may stop egg production for a month.

A Little Putnam Stove is also used to heat a home-made oat sprouter. Plans for making sprouter packed with every stove. A 14-year-old boy can build the sprouter in two or three hours with no tools but saw and hammer. The materials required need not cost more than 50c. Price of Little Putnam Stove, \$2.00. Postpaid. Illustrated circular on request.



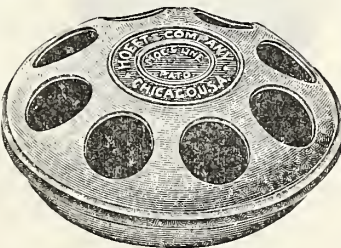
Star Jar Fountain

### STAR JAR FOUNTAIN

No parts to come unsoldered. Leaking impossible. Will fit pint, quart or half-gallon Mason Jar. Convenient, cheap and sanitary, one size only; No. 32 without the jar, 15c; two for 25c, postpaid.

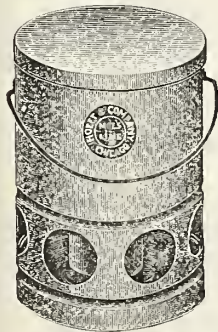
## Moes Round Baby Chick Feeder

This is the most popular style of Baby Chick Feeders, being round more chicks may be served, being covered prevents contamination and wasting. Cannot be upset. No. 11, 6 inches in diameter, 8 feeding holes, each 20c; No. 12, 8 1/4 inches in diameter, 12 feeding holes, each 35c.



No. 11 Round Feeder

**MOES PIGEON FEEDERS**—This is the best Pigeon Feeder made, they cannot foul the food, comes in two sizes. No. 105 small, price, 75c; No. 106 large, price, \$1.25. Parcel Post weight 4 and 5 lbs., respectively.



Moes Pigeon Feeders

### M. & S. LICE PROOF PERCH SUPPORT

These are indispensable in any poultry house, lice and mite are what stop your hens from laying. Price 50c a pair. Parcel post weight, 3 lbs.

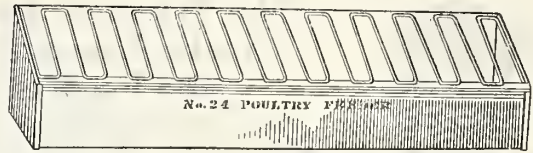


### SULPHUR FUMIGATING CANDLES

A Microbe and Germ killer. Also lice and mite destroyer. Is put up in original form with wick ready for the match. 15c each, 2 for 25c. Parcel Post weight, 1 lb.

**X-RAY EGG TESTER**—Price, 35c each. Mailing weight, 1 lb.

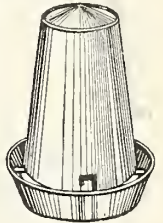
## Felker's Dry Mash Feeders



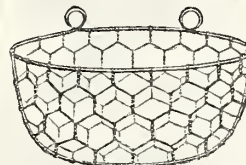
Made in two sizes. No. 12 and No. 24. No. 12, for a small colony of fowl or growing chickens. No. 24, a practical dry mash feeder for fowl. They cannot clog. They are dirt and rat proof, and are protected from waste by an especially designed gird. Should be hung on the wall by two nails, as high as the fowl can reach with ease. These Dry Mash Feeders are designed to give the consumer a feeder that in every way is practical, at a very reasonable price. No. 12, 85c; No. 24, \$1.20. Weight, 2 and 3 lbs.

## Felker's Cone Fountain

For chickens and pigeons. A new and practical drinking fountain. A two-part attachable fountain. Chickens or Pigeons can drink all around it, but can not get into it or foul it. It being attachable makes it easy to move from place to place and it is not easy to tip over. Made in two sizes—one quart and two quart. 30c and 40c. Weight, 1 lb. each, both sizes.



## Wire Nests and Nest Eggs



These nests are strongly made from coppered wire, reinforced with coppered steel ribs, and will last for years. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean, and are far superior to wooden boxes. Price, each, 25c; \$1.50 per dozen. Parcel Post wt. 1 lb. each.

**Opal Nest Egg**—Prices: 5c each; dozen, 40c. Special price on quantities. Weight, 1 dozen, 1 lb.

**M. & S. Non-breakable Nest Egg**—Will last indefinitely; looks most natural. 10c each; \$1.00 dozen, postpaid.

## Breeders' Magic Egg Tester

Is now universally used by poultrymen everywhere to select the strongest eggs for hatching BEFORE incubation. Requires no skill nor expense to operate—just a pair of hands and eyes. Tests 400 eggs per hour, and the greatest money saver in the realm of poultry supplies. Fully guaranteed, \$2.50 each.

**Incubator Wicks**—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

**Brooder Wicks**—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

**Incubator and Brooder Lamp Burners**—For "Mandy Lee," Cyphers, Essex, Prairie State and other makes. Large size, 75c; small size, 50c. Mailing weight, either size, 1 lb.

**Incubator Lamp Tanks without Burners**—Small size, \$1.15; medium size, \$1.25; large size, \$1.40. Parcel Post weight, 3 lbs.

**"Zenith" Chimneyless Brooder Lamp Burner**—Price, 75c. Mailing weight, 1 lb.

**Gas Burner for Incubators**—Price, 50c each, postpaid.

**Poultry Foods, Pratt's and Conkey's Remedies and Conditioners, Don Sung, Roup over, Avicol, Sodium Fluoride. See back insert pages.**



# M. & S. POULTRY AND PIGEON FEEDERS

## The Norwich Automatic Exerciser and Feeder

Were Awarded Gold and Silver Medal at the Panama-Pacific Exposition.

Thousands upon thousands in use in every part of the civilized world. Operate with any grain or mixture; never out of order and will last a lifetime. Saves Grain, saves labor, saves time. Increases egg production. Waste, Rain, Rat and Bird proof. Improves the flock. Guaranteed satisfactory in every respect or money refunded.

No. 1, 8-qt. Hopper, wt. 13 lbs. \$5.00  
No. 2, 14-qt. Hopper, wt. 15 lbs. 5.50  
No. 3, 20-qt. Hopper, wt. 20 lbs. 6.50  
No. 4, 32-qt. Hopper, wt. 27 lbs. 7.50

Awarded first prize wherever exhibited.

F. O. B. Baltimore, Md. Discount on quantities.

Can be sent by Parcel Post; add postage for zone.



## The Apaco Poultry Feeder

Same mechanical features which have proven so successful in the Norwich Automatic, but of the hanging type. Designed for the small breeder or "backyarder," but not recommended for the commercial plant owing to swaying motion, present in all hanging feeders, if kept constantly in action by larger flocks. Rotary action, complete with the all important adjustable valve for regulating feed discharge, and guaranteed the best automatic feeder on the market at its price.

Made in one size only, 12-qt. capacity. Price, \$2.00. Shipping weight, 5 lbs. F. O. B. Baltimore, Md.



Apaco Feeder.

## The Norwich Automatic Dry Mash Hopper

The problem of automatic dry mash feeding is completely solved in this wonderful machine. Operated with automatic vibrator rods, clogging is impossible, while the construction of the feed basin eliminates all waste. There is only three-quarters of an inch of mash in the bottom of the basin, the twenty quarts supply being completely protected from the dust and dirt of the house. Mash always fresh and clean and always the same amount before the birds.

Without Rain Guard; Parcel Post weight, 8 lbs.; capacity, 20 qts. \$5.00.

With Rain Guard; Parcel Post weight, 11½ lbs.; capacity, 20 qts. \$6.00.

Feed Cups for Exhibition and Training Cages—Fig. 3. Large size, No. 1, 20c each; \$2.75 doz.; small size, No. 0, 15c each; \$1.75 dozen. Parcel Post wt. 1 lb.



Fig. 3

## Anti-Setting Device

STOPS THE HEN SETTING

Breaks 'Em Up in 24 Hours (Patent Applied For) Does not in any way injure the fowl. Requires five seconds to apply. Wrap around the leg joint blank sides front and back; allow the hen to feed and run with the flock 24 hours, then remove. Price, 15c each; \$1.40 dozen, postpaid.



## FELKER'S "1-2-3" GRIT AND SHELL FEEDER—Fig. 1

For dry mash, scraps, shells, grit, charcoal or any poultry feed. When used for one kind of feed only, take out separator in one end; three kinds, say scraps, shell and grit, put separator in middle, and you have three separate feeders. Price, \$1.50; small size, 85c. Weight, 5 lbs. each.

"Apex" Wall Feed Pan—It can be hung high or low out of the way. Easy to clean. Like Fig. 2 feed pan illustrated. Can be used for feed, grit, etc. Price, 40c. Weight, 2 lbs.

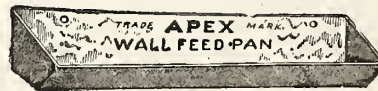


Fig. 2

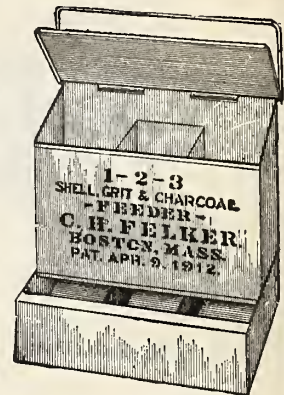
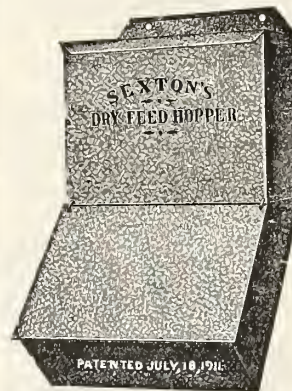


Fig. 1



Closed

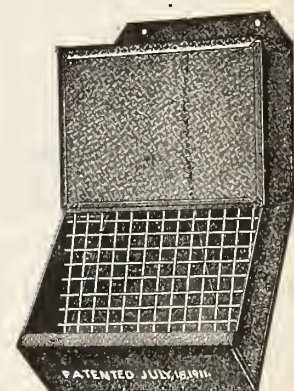


Fig. 3

Sexton's Dry Feed Hopper—Fig. 3. Easy to fill and no waste. Pronounced to be the best hopper offered. Simple in construction, easily operated, and absolutely rat, mouse and dust-proof. No. 1—Poultry size, capacity 12 qts. Weight 7 lbs. Each. \$1.50  
No. 2—Capacity 3 qts. Parcel Post weight 4 lbs. Each. \$1.00

## Safety First Chick Feeder

For Liquid or Dry Feed.

You buy or hatch your chicks with the hope of raising them. Realize your hope with the



Reasons why you should use it:

1. The pan is aluminum. Sour or buttermilk can, with safety, be put in a dish made of aluminum. No danger of the milk, owing to its acid content, becoming injurious to the chicks by its contact with aluminum or wood.

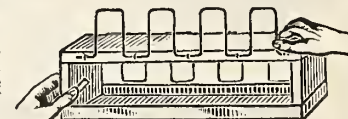
2. There is no possible chance for the droppings from the chicks getting into the pan.

3. There are no sharp edges for chicks to hurt themselves on.

4. It is injurious for baby chicks to get their feet wet. When the SAFETY FIRST feeder is used for sour or buttermilk there is no possible danger from the chicks getting their feet in the milk.

5. By simply turning the metal button on left leg and lifting up the wire guards the feeder can be easily filled, and it is so simple to take it apart to keep it clean and sanitary.

Safety First Feeder—Parcel Post weight, 1 lb. Price. . . . 50c





# M.&S. CHICK FEEDERS, POULTRY & PIGEON FOUNTAINS

## Norwich Chick Feeder



Positively prevents chicks from wasting the mash, and it is impossible for them to get into the food, thus making it an absolutely sanitary feeder. Top rods removable for filling and cleaning. Ends riveted and burned to brackets. The strongest and best Chick Feeder ever placed on the market. Perfection as a sour milk feeder.

With Rain Top, Parcel Post weight, 3 lbs. ....\$1.00  
20-inch—Parcel Post weight, 2 lbs. .... .75  
F. O. B. Baltimore, Md.

Can be sent by Parcel Post; add postage for zone.



## Felker's Jr. Chick Feeder

Feeds dry mash and grain as well as sour

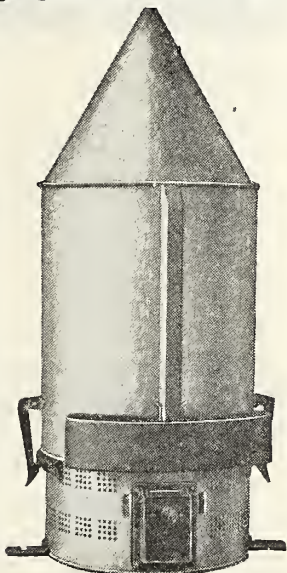
milk or water. 12-inch, price 25c each; 20-inch, 35c. Parcel Post weight, 2 lbs.

## The Norwich Auto- matic Airlock Fountain

The most perfect device ever placed on the market for automatically supplying pure, fresh water in the poultry house. It is a physical and absolute impossibility to contaminate or pollute the water supply, and requires cleaning about once in three months only. Guaranteed frost-proof to ten degrees below zero, and has been operated at twenty-eight below without being affected. Fitted with detachable cup, removable oil chamber, heat generator, etc. Passed by Fire Underwriters.

Made in one size only, 5 gallons capacity. Parcel Post weight, 17 lbs.; less burner base, 10 lbs.; base only, 10 lbs.

Complete with Burner Base...\$6.00  
Without Burner Base..... 3.50  
Burner Base only..... 3.50



## Felker's Sanitary Fountains for Poultry



Fig. 3

"PEERLESS" DRINKING FOUNTAIN keeps the water clean and pure. 1 qt., brooder size, 35c; 5 qt., 80c; 10 qt., \$1.20. Peerless Heater, fitting both sizes, price \$1.75. Parcel Post wt., 2 lbs.

Weights on Peerless Fountains: 1 qt., 2 lbs.; 5 qt., 3 lbs.; 10 qt., 4 lbs.



Fig. 2



Mehler Scraper — Positively the best and handiest tool which has ever been offered to Poultry Keepers. Works both ways coming and going. Made of the very best hand pressed steel. Price, \$1.25.

## EGG-O-HATCH

Egg-O-Hatch is a dry powder. It is mixed with water and the resulting liquid is applied to eggs two or three times during the 21 days of incubation. It is a liquid that does three things—supplies oxygen for the growing chick; absorbs carbon dioxide given off, makes more brittle and porous the shell of the egg. 50c per pkg., postpaid.



Fig. 9

THE NESCO FOUNTAIN, as per illustration, Fig. 9. Impossible for chickens or pigeons to roost on same.

1-quart....1 lb. ....\$0.25  
2-quart....2 lbs. .... .35  
4-quart....2 lbs. .... .45

NESCO No. 0 CHICK FOUNT, 15c each; weight, 1 lb.; \$1.75 per dozen; weight, 4 lbs.

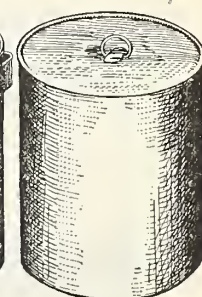
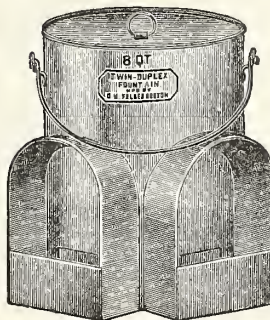


Fig. 0



McCANDLISH IMPROVED CHICK FEEDER (Pat. July 17, 1917, No. 1234054)—Equipped with adjustable partitions for various kinds of feed. An ideal drinking receptacle also. Made of Galvanized Iron, no rough edges; waste impossible; can't capsize. Revolving rod prevents the chicks from perching upon it, making the feeder absolutely sanitary. Lengths, 12, 20 and 30 inch. Prices, 40c, 50c and 75c. Parcel Post weight, 2 lbs.

ATSATT'S CHICK FEEDER — Very serviceable; galvanized iron; protected top to keep chicks out. Price, 30c. Parcel Post wt. 1 lb.



TWIN DUPLEX FOUNTAIN—Constructed with two water fronts, which doubles the drinking capacity. Eight-quart size. Price, \$1.50. Parcel Post weight, 5 lbs.

Five-Gallon Twin Duplex—Price, \$3.25. Parcel Post weight, 9 lbs.

FELKER'S DUPLEX WALL FOUNTAIN—A big improvement over the old style Wall Fountain. Made in two pieces, as per illustration, out of galvanized iron. Easy to clean, dead air space between cover and reservoir keeps water cool in summer and from freezing in moderate winter weather. Price, 4-qt. size, \$1.10; 8-qt. size, \$1.35. Parcel Post weight of either, 4 lbs.

Heater for same, \$1.75. Parcel Post weight, 2 lbs.

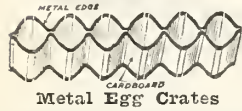
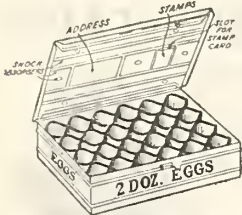
## Mason Jar Feeder and Fountain

The bottom of the feed pan slopes from the center to the edges, thereby insuring a free flow of feed from the jar to the edge of the pan, where the chicks can reach it through the openings. The small openings prevent dirt from getting into the pan—prevent the chicks from getting into the feed or water and prevent them from crowding too close around the feeder, thereby giving the weaker chicks an equal chance with the stronger ones. It fits any Mason jar. The top of the pan can be removed in a second to clean or fill. 25c each; 30c postpaid.



3 Pans 75c 4 Pans \$1





Butter and Eggs safely carried by mail in same crate. Can also be used in sending other products. See 'Combination Crates'.

#### Mailing Rates

Weights	Postage
Empty.	Filled.
1½ doz. size.....3 lbs.	7c
2 doz. size.....3 lbs.	7c
3 doz. size.....4 lbs.	8c
4 doz. size.....5 lbs.	9c
6 doz. size.....6 lbs.	10c
Comb. No. 1.....3 lbs.	7c
Comb. No. 2.....4 lbs.	8c
Comb. No. 3.....5 lbs.	9c
Comb. No. 4.....3 lbs.	7c
Comb. No. 5.....5 lbs.	9c
Comb. No. 6.....5 lbs.	9c
Comb. No. 7.....6 lbs.	10c

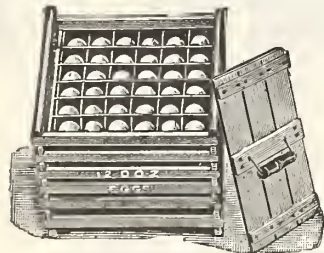
The above postage rates apply to the second zone or 150 miles. Add postage to your destination.

#### Metal Egg Crates Prices

1½ doz. size—all eggs.....	\$1.25
2 doz. size—all eggs.....	1.50
3 doz. size—all eggs.....	1.75
4 doz. size—all eggs.....	2.00
6 doz. size—all eggs.....	2.50

#### Prices Combination Crates With Metal Containers

No. 1—2 lbs. and 1 doz. eggs.....	\$1.50
No. 2—4 lbs. and 2 doz. eggs.....	2.00
No. 3—4 lbs. and 3 doz. eggs.....	2.25
No. 4—6 lbs. (3 2 lb. Containers).....	2.25
No. 5—12 lbs. (3 4 lb. Containers).....	2.50
No. 6—16 lbs. (2 8 lb. Containers).....	2.50
No. 7—24 lbs. (2 12 lb. Containers).....	3.50



**M. & S. EGG BOX**—Fig. 8. This is an ideal box for the retail egg trade holding 1 dozen, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape. 15c per dozen; weight, 2 lbs., \$1.25 for 125; weight, 11 lbs., \$2.50 per pkg. of 250; 1,000 \$9.00.

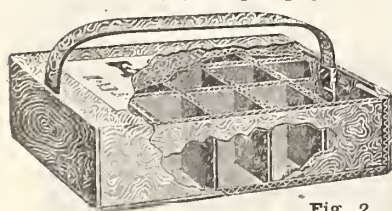


Fig. 2

#### Keipper Slide-Top Door Shipping Coop

Made from Light Cedar Wood combining strength, durability and light weight for exhibition purpose.

	Each.	½ Doz.	Doz.
No. 18—Size 12x18x21 inches high.....	\$0.30	\$4.50	\$3.00
No. 19—Size 12x21x21 inches high.....	1.00	5.50	10.00
No. 20—Size 20x24x21 inches high.....	1.55	8.75	16.50
No. 21—Size 12x21x24 inches high.....	1.40	8.00	15.00

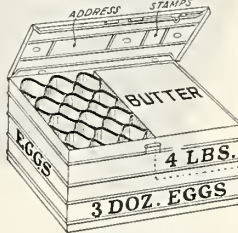
## Metal Egg Crates

Sell Eggs by Mail to Your City Friends Shipped in Aluminized Metal Egg Crates

Indestructible; made for interchangeable shipments; lasts for years; pays for itself in a few shipments. Buy yours now and realize more money for your eggs. Your friends want them. Thousands now in daily use.

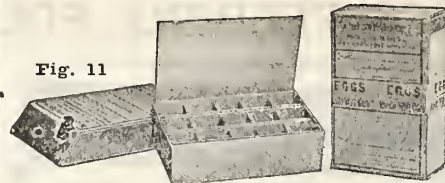
The Metal Edge Filler is a wonder. A new invention and cannot be beat for safely carrying eggs by mail. Light in weight and very strong.

Price of eggs in the city is about double the price obtained by the farmer at a local store for selected eggs. You might as well be receiving this added profit by shipping your eggs direct.



Combination Crates

Fig. 11

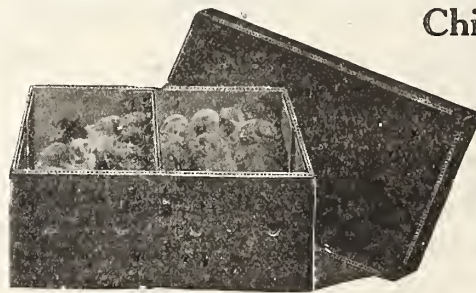


One setting—weight, 1 lb. each; 18 lbs., doz.....\$0.20.. \$2.25  
Two settings—weight, 2 lbs. each; 28 lbs., doz..... .30 3.75  
50-egg size—weight, 4 lbs. each; 40 lbs., doz..... .40 4.50  
Commercial Egg Box Filler, \$3.75 per gross, 40c per dozen.

## Chick Boxes

### LIVE CHICK SHIPPING BOX—

Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Are shipped knocked down and take up small amount of space.



	Wt. of box.	Size.	Each.	Doz.
25 chicks .....	1	9x11x5½	15c	\$1.25
50 chicks .....	2	18x11x5½	20c	2.00
100 chicks .....	3	18x22x5½	25c	2.50

## Leg Bands for Poultry, Etc.

### ALL POSTPAID

Tell the age and different strains of your poultry.

Table of sizes of bands for different breeds. Order by number.

No. 1—Bantams and small Mediterranean females, etc.

No. 2—Ordinary Mediterranean and pit game females, etc.

No. 3—Mediterranean males, American females, pit game males.

No. 4—American males, medium Asiatic females, turkey hens, etc.

No. 5—Ordinary large Asiatics and tom turkeys, etc.

No. 6—Tom turkeys and geese.

"SPIR-OL" LEG BANDS are made of celluloid in different colors; black, white, light blue, dark blue, red, green, yellow, brown, etc.

Prices: Three Poultry Sizes to correspond with Nos. 2, 3 and 4 in above list; 12, 15c; 50, 50c; 100, 90c; 500, \$4.00. Pigeon and Day Old Chick Size: 12, 15c; 25, 25c; 50, 40c; 100, 75c; 500, \$3.50.

"SMITH SEALED" BANDS—If you want the best be sure you get "Smith Sealed" stock numbered bands. Every band is numbered different. Prices, dozen, 35c; 25, 60c; 50, \$1.00; 100, \$1.75; 250, \$4.00; 500, \$7.75; 1,000, \$15.00.

SEALERS FOR SEALING S. S. BANDS—Plain, \$1.05; lettered jaw, \$1.15.

"DOUBLE-CLINCH" LEG BANDS—Made in sizes as table. A strictly reliable open or removable band. Fastens with two clinches, leaving absolutely no exposed corners, ends or loops to come loose. Prices, dozen, 20c; 25, 30c; 50, 50c; 100, 75c; 250, \$1.75; 1,000, \$6.50.

DOUBLE-CLINCH FOR PIGEONS AND BABY CHICKS can also be used as wing bands; in two sizes. Price, dozen, 15c; 25, 25c; 100, 70c; 1,000, \$6.00.

"CHAMPION" LEG BANDS—Fig. 2. Adjustable in two sizes. Large for American, small for Mediterranean breed. Price, dozen, 15c; 25, 25c; 50, 40c; 100, 75c; 250, \$1.75; 1,000, \$6.50.

"COLORED" ECLIPSE POULTRY BANDS—Made in twelve colors. Black numbers on white ground on two sides of the band; can be read at several feet distance. Order as to numbers above No. 2 for Leghorns, etc. Prices, dozen, 40c; 25, 75c; 50, \$1.50; 100, \$2.75.

SEAMLESS PIGEON BANDS—Made in three sizes. Prices, dozen, 30c; 25, 60c; 100, \$1.50; 1,000, \$12.50.

OPEN CHICK, OR PIGEON BANDS—Prices, dozen, 15c; 25, 25c; 50, 40c; 100, 65c; 1,000, \$5.25.

Fig. 6.

DOUBLE NUMBER COLORED PIGEON BANDS—This band is the most visible, most practical and effective numbered leg band made; in colors that can be seen at a distance. Prices, 6 pairs, 25c; 12 pairs, 50c; 25 pairs, \$1.00; 50 pairs, \$2.00. Fig. 7.

IDEAL DE LUXE PIGEON BANDS—Two colors on each band, all colors for marking mated pairs. Prices, 6 pairs, 25c; 12 pairs, 50c; 25 pairs, \$1.00; 50 pairs, \$2.00, postpaid.

Fig. 7.

Fig. 8.

Fig. 9.

Fig. 10.

Fig. 11.

Fig. 12.

Fig. 13.

Fig. 14.

Fig. 15.

Fig. 16.

Fig. 17.

Fig. 18.

Fig. 19.

Fig. 20.

Fig. 21.

Fig. 22.

Fig. 23.

Fig. 24.

Fig. 25.

Fig. 26.

Fig. 27.

Fig. 28.

Fig. 29.

Fig. 30.

Fig. 31.

Fig. 32.

Fig. 33.

Fig. 34.

Fig. 35.

Fig. 36.

Fig. 37.

Fig. 38.

Fig. 39.

Fig. 40.

Fig. 41.

Fig. 42.



# M. & S. BIRD, POULTRY AND ANIMAL REMEDIES

## Song Bird Supplies



Lb.	Lb.
Canary Seed .....10c	Thistle .....45c
Bird Rape .....15c	Sunflower .....12c
Millet .....06c	Hemp Seed .....08c
Puppy or Maw...30c	Mixed Bird Seed...15c

Cuttle Fish Bone—Price, 5c each; 50c lb.

"Gloria" Song-Restorer Food—This is an important article which is scientifically proportioned and has been fed with great success. Price, 1 lb. 25c.

For-get-me-not, Wild Bird, Seed Mixture—Feed the little songsters in the winter time. 15c lb.

Bee Brand Lice Powder—A most effective remedy for killings lice and fleas on birds, cats, dogs, monkeys, rabbits, etc. Price, 15c, 40c and \$1.00 a can, postpaid.

Bird Sand for Canaries and other birds. Very necessary. What we offer is sifted and free from all dust. 5c lb.

Special price on quantities.

Bird Tonic—A reliable medicine for loss of song, asthma or hard breathing, diarrhoea, moulting out of season, and those troubles arising from colds or exposure of cage birds. It is a liquid and is administered in the drinking water. Don't be discouraged if your bird is failing. Full directions on bottle. Price, 25c.

"American" Turkey Powder—It is sure to raise your young turkeys to healthy birds. Shipping weight, 2 lbs. Price, 30c.

Margaret Mahaney Black Head Remedy—For turkeys; sure cure. Price, \$1.00, postpaid.



## MORE EGGS. MORE EGGS.

### Sturdier Chicks

## Don't Feed Green Food!

GET MORE EGGS BY USING

## Succulenta Tablets

They are better, cheaper and more relished by all fowl. Simply dissolve one tablet in one quart of drinking water. Succulenta Tablets are not a drug nor a remedy, but a food—wholesome and harmless. They make hens lay; make chicks grow; hasten the moult.



A Full Egg Basket is Assured

100 large tablets by mail, \$0.50
250 " " " " 1.00
500 " " " " 1.75
1000 " " " " 3.00

Your Money Back if not Satisfied

Shorter Moult. No Bother

Dr. Hess' Roup Remedy, 25c.



satisfactory. One gallon makes 100 gallons of fluid. 8 oz. 35c; 1 pt. 50c; 1 qt. 75c; 2 qt. \$1.25; 1 gal. \$2.00. Liquid.

"Zenoleum" Lice Powder—Large 18-oz. Pkg. 30c.

Cholerine—For Fowl. A wonderful remedy for cholera, roup, white diarrhoea, limberneck and other germ diseases. In pill form. 65c each, postpaid.

LICECIL — To be highly recommended for killing all kinds of insects, chicken and house pest as well. Bottle, \$1.00; 3 Bottles, \$2.50. Cannot be mailed.

Dr. Hess' Stock Tonic — Best for Hogs, Horses, Cows, etc. Pkg. 25c, 50c and \$1.00. Parcel Post weight, 2 lbs., 7 and 13 lbs. 25-lb. Buckets, \$2.25; 50 lb. \$4.25; 100 lbs. \$8.00.

Dr. Hess' Poultry Panacea — Guaranteed tonic and egg producer. 1½ lb. pkg. 25c; 6-lb. pkg. 75c; 12-lb. pkg. \$1.50; 25-lb. pail \$3.00; 50 lb. \$5.50; 100 lb. \$10.00.

Dr. Hess' Instant Louse Killer — Shipping weight, 2 lbs. and 3 lbs. Price, 25c and 50c pkg.

Dr. Hess' Disinfectant and Dip — One pt. bottle, 40c; 1 qt. 75c; 2 qts. \$1.00; 1 gal. \$1.75.

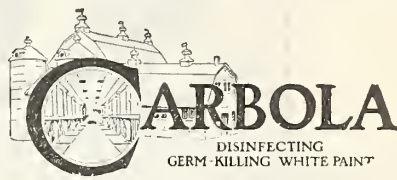
"Zenoleum" Disinfectant Lice Killer and Animal Dip — We have been selling this article for years and find it most

## Fibre Pigeon Nests



Indurated Fibre Pigeon Nest—Fills a long-felt want for all squab breeders. Price, 30c each; weight, 1 lb.; \$3.00 per doz.; weight, 9 lbs. Clay Pigeon Nest 25c each, \$2.50 doz.

CARBOLA—The Disinfectant That Paints—Use it instead of White-wash. Put on with a brush or sprayer—A snow-white cold water paint that will not blister, flake or peel off, combined with a germicide 20 times stronger than carbolic acid, but



## Common Sense Exterminator



## KILLS RATS

Why feed rats when a 25c can of "Common Sense" will clean them out?

"Common Sense" has been on the market for over a quarter century. It does the work or we would not handle it.

Get a can NOW and if you do not find it entirely satisfactory, we will refund your money.

It will not harm anything else but rodents, who get sick, after eating it, and die after leaving the premises. 75c, postpaid.

BARIUM CARBONATE—A tasteless and odorless mineral recommended by the U. S. Government for exterminating rats and mice. It was used for cleaning Baltimore of this pest. 25c pkt.; \$2.50 per doz.



RAX—A virus, not a poison; safe to handle as poison, who get sick, after eating it, and die after leaving the premises. 75c, postpaid.

## DETHOL

The recent Baltimore Poultry Show was disinfected with Dethol.

Destroys all insects. It is stainless; can be sprayed direct on poultry. A thorough disinfectant. 1 pt. 50c; 1 qt. \$1.00; 1 gal. \$3.00. 1 pt. sprayer for same, 40c; qt. size, 50c. Being a liquid, it cannot be sent by parcel post; express only.



## Pratt's Egg Preserver

Put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months. One gallon makes sufficient solution for 50 dozen. Do not trust eggs to water glass of inferior strength. Buy PRATT'S EGG PRESERVER, the pure, strong kind. It will stand the maximum amount of dilution with water. Don't take chances.

Price, 1 quart, 35c; 1 gallon, \$1.00.

EGG-O-LATUM is a white cerate or ointment. Rubbed over the shell of the egg it seals every pore so that nothing can get in or out. The egg does not dry out. No air, moisture, odors, or germs can get in. The egg is preserved in all its original freshness. The application of Egg-O-Latum is easily and quickly done. A dozen per minute. Fresh eggs must be used, preferably unfertile. Per jar, 50c, postpaid. Enough for 50 dozen eggs.

December 7, 1922.

Gentlemen: In March I received 100 M. & S. Wonder Bred Chicks from you. I have raised 96 of these to maturity. Several U. S. Experimental Station men saw them and said that they were a fine bunch of chickens. Yours truly,

L. J. CHASSAGNE, Raspeburg, Md.

October 26, 1922.

Gentlemen: The M. & S. Wonder Bred S. C. Brown Leghorn Chicks which I purchased from you turned out very fine. They are the only chickens of my flock which are now laying. Yours truly,

O. P. BOYER, Perryman, Md.



Prices on All Foods Subject to Change Without Notice

## Poultry Foods, Tonics, Instruments and Thermometers



**LEE'S LICE KILLER**—Liquid—Qt. 60c; 2 qts. 90c; 1 gal. \$1.50.  
**LEE'S GERMOZONE**—The best tonic for poultry of all kinds. Cures roup, cholera, and other poultry diseases. 32-oz. bottle, \$1.50; 12-oz. bottle 75c; 4-oz. bottle 40c; in tablet form postpaid, 75c.

**ALFALFA CLOVER MEAL**—Rich in protein and especially desirable for young birds. 5c lb.; 100 lbs. \$3.50.

**BARLEY**—Principally fed for making feathers and bone. 5c lb.  
**BEEF SCRAPS**—(Royal Crown)—Very rich in protein; 50 to 55 per cent protein, 12 to 15 per cent fat, 1 to 2 per cent fibre. 8c lb.; 10 lb. 75c; \$5.50 per 100.

**BONE**—(Coarse and Fine)—For muscle making, producing eggs and as a digester. 5c lb.; 100 lbs. \$3.75.

**BRAIN** (Wheat)—For mash, etc. An excellent egg maker and very nutritious. 5c 1 lb.

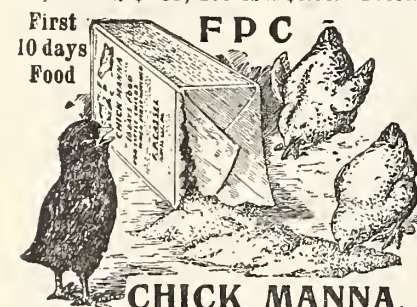
**BUCKWHEAT**—Fed very largely as change of diet. 6c lb.

**BUTTERMILK**—Pure dried. 10c lb.; 10 lb. 90c; 25 lb. \$2.25; 50 lb. \$4.25; 100 lb. \$8.50.

**CANADA PEAS**—Principally fed to pigeons, when it acts as a bowel regulator. 7c lb.

**CHARCOAL**—Three grades, fine, medium and coarse. Disinfects the bowels and tones up the whole system. 1 lb. 8c; 35c for 5 lb.; 10 lbs. 60c; \$2.00 for 50 lbs.; 100 lbs. \$3.50.

**CONKEY'S BUTTERMILK STARTING FOOD**—For Baby Chicks, to be fed for 6 to 8 weeks. 2½ lbs. 20c; 5 lbs. 35c; 10 lbs. 65c; 25 lbs. \$1.50; 100 lbs. \$5.50. Prices subject to change.



**CHICK MANNA.**

poultry and cows. 1 lb. 5c.

**GRIT** (Pearl)—Fine, medium and coarse. 5 lbs. 15c; 50c for 25 lbs.; 50 lbs. 75c; \$1.25 per 100 lbs.

**GRIT** (Red Cross Health)—For pigeons. 5 lbs. 20c; 35c for 10 lbs.; 25 lbs. 65c; \$1.25 for 50 lbs.; 100 lbs. \$2.25.

**GROUND OATS**—This makes an excellent dry feed when combined with other similar ration. 5c lb.

**HEMP SEED**—Fed largely to pigeons, also to poultry during winter months. 8c lb.

**HEN-E-TA BONE**—Takes the place of beef scraps, oyster shell and charcoal. In 4 sizes. 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$3.50. Fine, granulated, medium and coarse.

**HULLED OATS**—A splendid food for young chicks. 5c lb.

**KAFFIR CORN**—Makes a fine food for pigeons, also used for poultry. 5c lb.

**LINSEED MEAL**—For feeding with the regular ration during the moulting period. 5c lb.

**MIDDINGS**—An excellent change in combination of a mash. 5c lb.

**MILLET** (for feeding)—Highly nutritious and used extensively for pigeons and young chickens. 6c lb.

**OATS**—Splendid for sprouting. 5c lb.

**OAT MEAL** (Pin Head)—An excellent food for young chicks after they are a few days old. 6c lb.

**O. K. LITTER**—Fine for scratch pens, absorbs moisture, lasts long time. \$3.75 per large bale.

**OYSTER SHELLS**—Fine and coarse. 5 lbs. 15c; 50c for 25 lbs.; 50 lbs. 75c; \$1.25 per 100 lbs.

**PRATT'S PIGEON FOOD**—Containing the best of grain. 5c lb.; 100 lb. \$4.00.

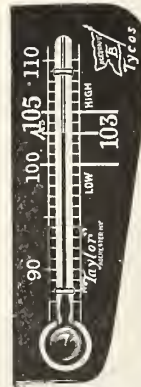
**ROLLED OATS**—6c per lb.

**SUNFLOWER SEED**—For poultry, parrots, etc. 8c lb.; 10 lbs. 75c.

**TOBACCO STEMS**—1 lb. 10c; 50 lbs. \$2.50; 100 lbs. \$4.50.

**VETCHES OR TARES**—For pigeon feeding. 8c lb.

**WHOLE CORN**—Especially used in the evenings during cold winter weather. 5c lb.



No. 5774  
 Thermometer box, price, \$2.75.  
 Felt—For Incubator Diaphragms and Brooders—Price, 75c square yard, postpaid.  
 We Supply Cyphers, Cycle Hatcher and other brooder and incubator repairs.

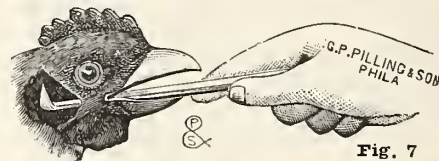


Fig. 7



Fig. 6



Fig. 5

Fig. 6

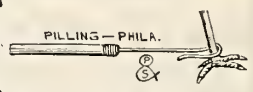


Fig. 7

**PHILADELPHIA POULTRY MARKER**—Large and small. Price, 25c, postpaid. Fig. 5.

**POULTRY MARKER**—In shape of pliers. 25c, postpaid. Fig. 6.

**POWL CATCHER** (Fig. 7)—20c, postpaid.

**GAPE WORM EXTRACTORS**—Price, 25c, postpaid.

**MOES POULTRY PUNCH.**

Fig. 8. The best punch made, easy to handle and will not bruise the web of the little chicks foot, 50c, postpaid.

**M. & S. WONDER BRED CHICKS**—Supplied from February till June.

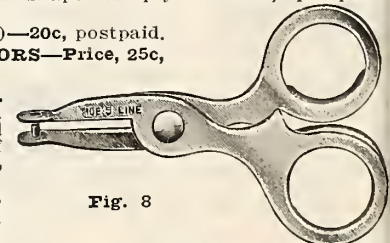


Fig. 8

## Bird Houses

Comparatively few of us recognize the great economic value of birds. Particularly the Blue-Birds, House Wrens, and Martins are very easily domesticated. Their favorite nesting sites are bird houses made for their use which may be placed about the garden, farm, or orchard. As rent, these faithful birds pay amply, by destroying millions of insects annually. State for what kind of bird boxes are wanted. Price, \$1.25. Weight, 3 lbs.



Gentlemen: I have been using Don Sung (Chinese Egg Laying Tablets) on my hens and pullets and can say it works wonders.

Yours truly,  
 ASA GARDNER.

Gentlemen: The chicks were received yesterday and they are a wonderful lot, only two dead. They are doing fine and we are very much pleased. We shall always praise M. & S. Wonder Bred Baby Chicks to the highest.

WM. E. VOGELSON,  
 Indian Head, Md.





# Raise all Your Baby Chicks- Pratts Buttermilk Baby Chick Food

This original "baby food for baby chicks" has taken all the guess, worry and loss out of raising baby chicks. Made of sweet, wholesome, purest ingredients in the most modern poultry feed mill in America and mechanically predigested, it is life insurance for chicks. Millions of pounds of



## **Pratts Buttermilk Baby Chick Food**



are used annually by successful poultrymen all over the world. Use it for your chicks for the first month or six weeks and watch results. Every ounce is full of bone, muscle, feather and health builders. Chicks grow strong, uniform, vigorous and sturdy, and are free from leg weakness, pasting up and digestive troubles. You'll pay for the food in the chicks you'll save.

Beware of imitations, there are none so good. Pratts is guaranteed to raise every livable chick. Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect "baby food" for young fowls.

In packages and 14, 25, 50 and 100-lb. bags.



For birds that are "off their feed," out of condition or need bracing for the show, use

## **Pratts Condition Tablets**

Keep them on hand always. 25c. and 50c. boxes.

Scaly leg is unsightly and contagious.

## **Pratts Scaly-Leg Ointment**

Will cure it in a few days. 30c. and 60c. a box.



For "rattling" or "whistling" in the throat,

## **Pratts Bronchitis Tablets**

furnish quick relief.

25c. and 50c. a box.



# PRATTS 51<sup>ST</sup> YEAR OF SERVICE

## NOTICE

All Pratt Remedies postpaid. Disinfectants can be sent by express or freight only. For parcel post add 5c. on 25c. packages and 10c. on 50c. packages of Poultry Regulator, Buttermilk Baby Chick Food and Lice Powder.



# Pratts Preparations mean Health Poultry Health means Profit



The most destructive of all chick diseases can be prevented by the use of

## **Pratts** White Diarrhea Tablets

in the drinking water for the first couple of weeks. Proven by years of success, it will save you many dollars and chicks. Guaranteed. 25c. and 50c. packages.

"Sorehead" or Chicken-Pox is dangerous contagious and kills thousands of valuable fowls.

## **Pratts** Sore-Head Chicken Pox Preparation



is a safe, sure and powerful article for the successful treatment of this disease. Keep this standard preparation constantly on hand so you can treat your hens promptly.

30c. and 60c. packages.



Don't lose chicks because of "gapes." Use

## **Pratts** Gape Compound

an effective, easy remedy that will prevent further losses and save the sick chicks. Try it.

25c. and 50c. packages.

Red mites, fleas, lice, blue bugs, ticks and other blood-sucking vermin cannot exist where

## **Pratts** Red Mite Special

is used. Paint or sprayed around the poultry house, on nests, roosts, etc., it is sure death to all mites and lice. Powerful, efficient, lasting. Use it where others have failed. It will surprise you.

55c. a quart; 95c. a 1/2 gallon; \$1.50 a gallon.



For indigestion, sour crop, diarrhea and bowel troubles commonly called "CHOLERA"

## **Pratts** Special Compound

gives quick, effective relief. Easy to use. Certain in action. Guaranteed.

25c. and 50c. packages.

For lice on baby chicks use

## **Pratts** Head Lice Ointment

Specially made for the tender skins of chicks. Soothing and healing, 30c. a box.



### PRATTS 51<sup>ST</sup> YEAR OF SERVICE

Every Pratt Preparation is sold on this Guarantee:—

**"Your Money Back If YOU Are Not Satisfied"**





# Successful Poultrymen Use Pratts Poultry Preparations

## For Health and Eggs **Pratts Poultry Regulator**



has no equal. It is the world's original poultry regulator and has been the standard for over 50 years. It is a natural tonic supplying numerous health necessities required by heavy laying hens. Tones up system, regulates bowels aids digestion, sharpens appetite, wards off disease and increases vitality. Use it the year round for breeders, layers and growing stock.

30c., 60c., \$1.20 packages; 12 lb. pail, \$1.75; 25 lb. pail, \$3.40; 100 lb. drum, \$11.25.



## **Pratts Powdered Lice Killer**

is powerful, economical, non-poisonous and non-irritating. For use on poultry, in dustbaths, nests, etc. Rids poultry of all ages, dogs, cats, horses, cattle, hogs and sheep of lice, ticks and other insect pests. Can also be used on vines, plants and flowers.

In sifter top cans at 30c. and 60c.

## Cleanliness Means Poultry Health

### **Pratts Poultry Disinfectant**

insures poultry health. It is a cheap, powerful, non-poisonous disinfectant. Spray it about poultry houses, roosts, dropping boards, nests and wherever a strong disinfectant is needed. A deodorizer, germicide and liquid lice killer. Effective in the treatment of roup, cold and contagious diseases.

Quart, 60.; half-gallon, \$1.05.; gallon, \$1.70.



## Save Your Birds from Heavy Roup Losses

### **Pratts Roup Tablets** (or Powder)



Use it as a treatment or a preventive. A simple, powerful remedy with a long record of success in the treatment of colds, roup, diphtheria, catarrh, etc. Guaranteed to give satisfaction or your money back.

25c. and 50c. packages.



## PRATTS 51<sup>ST</sup> YEAR OF SERVICE

Every Pratt Preparation is sold on this Guarantee:—

**"Your Money Back If YOU Are Not Satisfied"**



# Pratts Perfect Poultry Feeds Make Chicks Grow and Hens Lay

**Pratts** are the highest quality poultry feeds made in America. Backed by over 50 years experience with poultry, with every ingredient carefully selected and processed in the most modern poultry feed mill in the United States they are scientifically and practically correct. Pratts feeds give results when others fail and are better than the best you ever used. There is a Pratt feed for every poultry need and every age of fowl. Start your birds on Pratts and follow the Pratt system if you want real success and profit.

Start your chicks on

## **Pratts Buttermilk Baby Chick Food**

(See opposite page for description)

and after the husky little fellows are about a month old switch them to



## **Pratts Buttermilk Growing Mash**

Made of the most wholesome ingredients, it supplies an abundance of every element needed for making bone, muscle, feathers and health. Insures vigor and quick, uniform growth. Feed Pratts Buttermilk Growing Mash and watch them grow. When they are matured give them



## **Pratts Buttermilk Laying Mash**

the food that "makes eggs." Every ounce is real food that nourishes and keeps your hens laying and healthy. It is so appetizing the hens eat it greedily and the more they eat the more they lay. You fill the hopper and the hens will fill the nest. Fine for moulting hens and breeding stock. Most economical judged by eggs and profit. Pratts is a real "laying mash." There is none "just as good."



**Pratts** Scratch Feeds are good clean feeds with no grit, dirt, charcoal, shell or other cheap or useless filler. There is a Pratt Scratch Feed to be used with every Pratt Buttermilk Mash, with which they form perfect balanced rations. Sweet, clean, honestly made feeds.

Pratts Chick Size Scratch Feed for Baby Chicks.

Pratts Intermediate Size Scratch Feed for growing and Laying Stock.

Pratts Large Size Scratch Feed for Laying Hens.

PRICES  
ON  
PRATTS GRAIN  
AND  
MASH FEEDS  
SUBJECT TO  
MARKET CHANGES

Pratts Buttermilk Baby Chick Food,	10 lb. 65c; 25 lb. \$1.50; 50 lb. \$2.75; 100 lb. \$5.25.
Pratts Buttermilk Growing Mash,	5c. lb.; \$4.00 per 100 lbs.
Pratts Buttermilk Laying Mash,	5c. lb.; \$3.75 per 100 lbs.
Pratts Chick Size Scratch Feed,	5c. lb.; \$3.75 per 100 lbs.
Pratts Intermediate Size Scratch Feed,	5c. lb.; \$3.50 per 100 lbs.
Pratts Large Size Scratch Feed	5c. lb.; \$3.00 per 100 lbs.

If to be sent parcel  
post, include proper  
amount of postage



We are Authorized Agents for

# BURRELL DUGGER

## Poultry Remedies

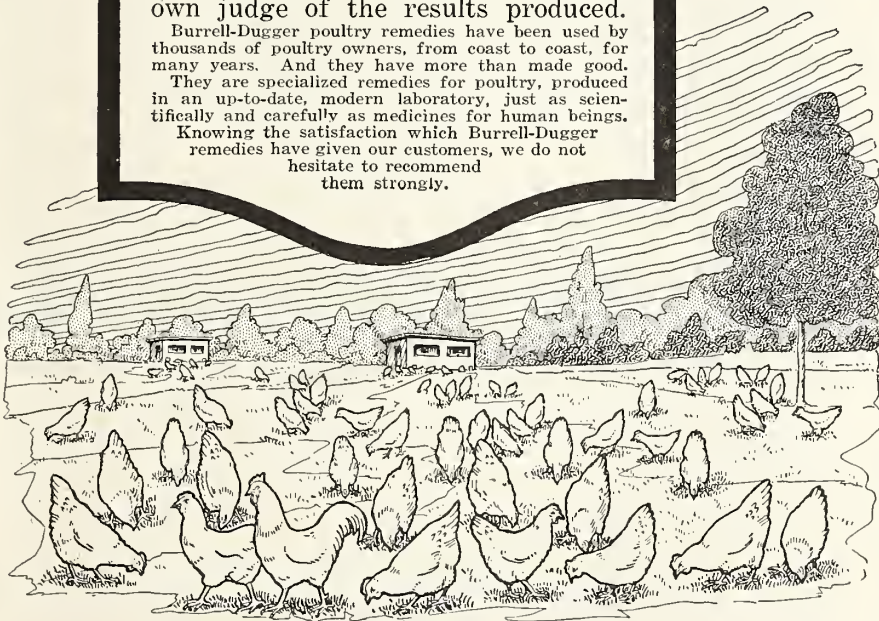
ANY time you have a sick chicken—  
and there is a Burrell-Dugger  
remedy recommended for that dis-  
ease, please remember this:—

Every Burrell-Dugger remedy is  
positively guaranteed to give you  
complete satisfaction, or your money  
will be promptly refunded on request.  
No red tape or argument about it!  
Simply use the remedy and be your  
own judge of the results produced.

Burrell-Dugger poultry remedies have been used by  
thousands of poultry owners, from coast to coast, for  
many years. And they have more than made good.

They are specialized remedies for poultry, produced  
in an up-to-date, modern laboratory, just as scien-  
tifically and carefully as medicines for human beings.

Knowing the satisfaction which Burrell-Dugger  
remedies have given our customers, we do not  
hesitate to recommend  
them strongly.



Every Burrell-Dugger Remedy is fully guaranteed  
Money refunded if not satisfied



# DON SUNG MAKES HENS LAY



Trial Size, 50c  
\$1 size (3 times 50c size)  
\$5 size (6 times \$1 size)

**Lots of eggs the year 'round,  
and stronger, healthier hens**

"Hens won't lay in fall or winter," used to be accepted as a fact. But anyone who has ever tried Don Sung knows that hens can and will lay steadily every month in the year.

Thousands of poultry owners, from coast to coast, have used Don Sung for years. They'll tell you that it works like magic—that there is nothing else like it on the market.

Don Sung (Chinese for egg laying) acts directly on the egg-laying organs and is beneficial in every way. It makes hens healthy and happy. They scratch and sing. Pullets develop earlier. The whole flock lays regularly in any season, in any weather, when eggs are scarce and high. Don Sung is no trouble at all to use. It costs you nothing to give it a trial.

We invite any poultry raiser to make the following test, entirely at our risk: Give Don Sung to 15 hens. Then watch results for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and pay you a good profit besides, your money will be promptly refunded. You be the sole judge. We'll leave it entirely to you to say whether or not Don Sung has paid you.

## Here's what poultry raisers say about Don Sung!

### 34 Eggs a Day From 36 Hens

"Just a word of praise for your Don Sung. Yesterday, Jan. 16, with temperature 5 degrees above zero, I got 34 eggs from 36 barred rocks. Thanks to Don Sung."—H. G. Casper, Orville, O.

### 42 Below Zero—Gets Eggs!

"Enclosed find \$1 for which please send me a package of Don Sung. I tried one box and find my hens are doing fine. When the weather was 42 below zero, I got ten eggs. I have only 22 hens. So many of my neighbors are not getting any at all."—Mrs. James Livingstone, Calais, Me.

### Don't Want to Be Without It.

"Send me, as soon as possible, \$1 worth of Don Sung. I tried one 50c box and am well pleased with it. When I began using Don Sung I was only getting 2 to 3 and 4 eggs a day. Since using it one week, I am now getting

11 eggs a day. Please send it by return mail as I don't ever want to be without Don Sung."—Bridia Glover, Bethpage, Tennessee.

### 35 Eggs a Day Instead of 3

"Enclosed find a money-order for \$5 for which send me a large size package of Don Sung. Before using Don Sung I was getting from 3 to 4 eggs a day. After using one 50c size of Don Sung, I am getting from 30 to 35 eggs a day, and they are still increasing every day."—Mrs. C. Means, Lake View, Ia.

### From 2 Eggs a Day to 16

"I have only used Don Sung for two weeks and I am getting 15 to 16 eggs a day. Before I began using Don Sung, I was only getting 1 to 2 eggs a day. I expect to get two dozen before the month is out. Believe me, I am your satisfied customer."—Mr. William Berryhill, Okmulgee, Okla.



**Scientifically made in the Laboratories of the Burrell-Dugger Company**



# AVICOL

## Stops Chicks Dying

### A Specific for White Diarrhoea, Cholera and Black-head

Every year, over half the chicks hatched die from chick cholera, diarrhoea and other bowel diseases. This has been shown by U. S. Government reports.

Avicol, used in the drinking water, will stop these losses. Thousands of poultrymen will tell you that they now raise nearly every chick of every hatch. Many of them were losing chicks right and left before they started using Avicol. Within a few hours after receiving Avicol the sick, drooping chicks begin to revive and soon are lively and healthy. After you have once tried Avicol, you would no more think of trying to raise baby chicks without it than you would think of denying them food.

Avicol should be the very first water the little chicks drink. And it costs so little that it will pay you to keep it in the drinking water all the time, for all the flock, old and young. It is no trouble to give—simply drop a tablet in the water and the chicks get the treatment as they drink.

Avicol is Fully Guaranteed. Your money will be promptly refunded without question or quibble if it doesn't absolutely satisfy you in every way.



Trial Size, 25c  
50c size (2½ times 25c size)  
\$1 size (2½ times 50c size)

### Avicol has thousands of boosters like these!

#### Telling Her Friends About It

"I am now sending for another box of Avicol tablets. I have used five different kinds of tablets for White Diarrhoea among little chicks, and have never used anything that gave the satisfaction that the Avicol does. They are sure the thing for White Diarrhoea. I am telling my friends about them and some of them are using them now and certainly think they are wonderful."—Mrs. E. N. Scholes, Eskridge, Tenn.

#### 'Can't Raise Chicks Without It'

"Enclosed you will find 50c for which please send me 50c worth of Avicol tablets. It seems that I can't raise little chicks without it. When I use it I never lose one with the White Diarrhoea or Cholera. I also find it good for grown up chicks. Please send it as soon as you can for I lost one yesterday."—Mrs. G. W. Peek, R. R. No. 7, Dandridge, Tenn.



#### "There's Nothing As Good"

"Enclosed find a 50c P. O. Money Order for which please send me one package of your wonderful Avicol tablets. I have used them and there is nothing as good, I am sure. I have some biddies coming off and I don't want to be without it."—Mrs. E. D. Bringold, Echo, La.

#### No Other Remedy Compares With It

"I used your Avicol tablets last year and the results were great. You will find \$1 enclosed for which please send me the large package of Avicol at once as I have a lot of young chicks and there is no other remedy on the market to compare with Avicol."—Mrs. H. L. Thomas, Wellford, W. Va.

#### "The Only Sure Remedy"

"Send me at once a 50c box of Avicol. It is the only sure remedy I have found yet for sick chicks."—L. J. Kramer, Mendota, Illinois.

Scientifically made in the Laboratories of the Burrell-Dugger Company



# Roup-Over

TRADE-MARK

**"The Over-Night Roup Remedy"**



**A New  
Prompt, Positive  
Guaranteed Treatment for  
ROUP, CANKER AND  
COLDS IN POULTRY**



Roup works fast. It usually begins with a cold. After that the disease progresses rapidly. In a short time it can kill every chicken you own. Roup is one of the most serious of poultry diseases. The air passages clog up and the bird soon chokes to death. It is very contagious.

Keep a bottle of Roup-Over on hand, and at the first symptom of a cold in your flock start giving it to every affected bird. It clears the air passages and brings relief with magic quickness. Roup-Over is easily given. It comes in a liquid form and a few drops does the work.

This famous remedy is positively guaranteed to give complete, prompt and positive results, or your money will be refunded in full. There is nothing on the market like Roup-Over for Roup, Colds and Canker. Don't risk a substitute. When your birds have colds or roup, you certainly have no time to experiment.

**Price 50c  
Large Size, \$1  
(three times 50c size)**

## TALCIMIZED SODIUM FLUORIDE

**KILLS  
Chicken  
LICE**

**The U. S. Department of Agriculture and most  
State Agricultural Colleges endorse the  
Sodium Fluoride method of killing lice.**

After years of study and after numerous tests they report it the most effective, positive way to get rid of poultry lice. They say it kills all lice—both old and young—including the lice that hatch from eggs present on the fowl at the time of treatment.

For positive results be sure to get the genuine Talcimized Sodium Fluoride (Call it T. S. F.) put up by the Burrell-Dugger Co. It is specially processed and prepared especially for poultry use, and is in a convenient, shaker-top package bearing the U. S. Government's instructions for applying. One small package will treat about 40 chickens.

**Small Size, Price 35c (40c by mail)  
Large Size (twice as much), 60c (70c by mail)**

## Skalooint

Scaly-Leg is a contagious disease caused by tiny mites digging under the skin. The affected bird becomes lame and eventually joints or even whole toes may drop off. Skalooint gets right at the trouble and gives quick, positive results. The scales fall off, the legs become smooth and in a few days the whole trouble disappears. Easily applied. Guaranteed. **Price 25c.**

### For Gapes in Chicks

When gapes starts in your flock, you must get the best of it promptly or it is likely to kill all your chicks. Get Trakol and watch it quickly master the situation. Easily given. Use it regularly for prevention. Simply put it in the drinking water. Guaranteed for both prevention and treatment. **Price 25c.**

### We suggest this:—

Here's the full line of Burrell-Dugger Remedies. They have all been proven good in years of use and are Fully Guaranteed. Order your supply now from this list. It will pay you to keep remedies like these on hand, ready to use **WHEN YOU NEED THEM.** After a disease breaks out in your flock it may be too late. Right NOW is the best time, and here is a line of remedies that we can conscientiously recommend.

**Avicol**, for White Diarrhoea, Cholera and Black-head, 25c, 50c, \$1.

**Don Sung**, Tonic for Making Hens Lay, Regulator & Conditioner. 50c-\$1-\$5.

**Roup-Over**, for Roup, Colds, Canker, etc. 50c and \$1.

**Trakol**, for Gapes. 25c.

**Talcimized Sodium Fluoride**, for Killing Lice. 40c and 70c (postpaid).

**Skalooint**, for Scaly-Leg. 25c.

**Scientifically made in the Laboratories of the Burrell-Dugger Company**





## Have a Conkey Corner in Your Poultry House

Raising poultry is pleasant and profitable when "good luck" is with you. Good luck, however, is not merely a matter of chance, but of BEING PREPARED. For more than twenty-five years Conkey has been THE POULTRY DOCTOR. Take his advice. Install a Conkey Corner of remedies in your poultry house as insurance against disease, trouble, loss and disappointment.

We sell Conkey's Poultry and Stock Remedies because we know they are reliable and we can guarantee them as follows:

Your money refunded cheerfully if any Conkey remedy does not satisfy.



## Conkey's ROUP REMEDY



When Roup breaks out there's no time to experiment—start treatment at once—the disease is very contagious. Cold, rainy weather and changeable conditions intensify Roup. When birds sneeze, froth in eyes, or run at nose put Conkey's Roup Remedy in the drinking water. Sick birds doctor them-

selves and others are protected from catching the disease. Better still, always at the first sign of "roupy weather," place Conkey's Roup Remedy in fountains—it's a great preventive.

Packages 25c, 50c, \$1.00; breeder size (5-lb. can) \$5.75. All postpaid.

### Conkey's Roup Pills

For treating individual cases and for use at shows when birds develop colds. These pills have saved many a valuable bird.

Packages 30c, 60c, \$1.20, all postpaid; breeder size (1000 pills) \$3.00, \$3.10 postpaid.

### Conkey's Canker and Bronchitis Remedy



This splendid remedy checks cankerous growths and sores and soon restores the bird to normal. This remedy is Conkey's Specific for bronchitis. Also desirable in treating individual cases of Roup and for use at shows for colds.

Package 50c Postpaid.

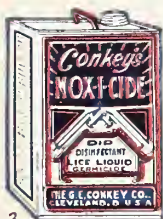
### Conkey's Cholera Remedy



So-called Cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Diarrhea, a drowsy, listless appearance and great thirst—these are the signals to put Conkey's Cholera Remedy in the drinking water.

Packages 25c, 50c, \$1.00, all postpaid; breeder size 5 lbs., \$2.50; \$2.65 postpaid.

## Conkey's NOX-I-CIDE Mite Liquid, Dip, Disinfectant



Every poultry yard, ranch, home, factory, stable, store, office building—in fact, every place where sanitation is necessary to health—needs Conkey's Nox-i-cide every day in the year.

For poultrymen, Nox-i-cide is indispensable as a red mite destroyer—paint it on the roosts and spray it into cracks. Spray premises daily when disease is present and once a week as a preventive of red mites, ticks, "bluebugs" and disease epidemics.

As a veterinary wash in treating swine, sheep, stock, etc., Nox-i-cide is widely used. Sheep raisers, swineherds, cattlemen and others praise it highly as a dip.

Try it for household use—for assisting in driving out ants, destroying odors, routing out bedbugs and cockroaches, for making sinks, cess-pools, garbage containers, etc., sanitary and safe.

Cans, Pint 45c; Quart 70c; 1/2 Gallon \$1.15; Gallon \$1.80; 5 Gallon \$8.75; 10 Gallon \$17.00. Parcel post, express or freight charges extra.

Ask for Prices on Sprayers





## Conkey's POULTRY TONIC

Every bird from chick to maturity will be more productive, healthier and more profitable if given a good tonic and regulator. Conkey's Poultry Tonic helps birds to get more out of their feed; they produce more eggs and better flesh on LESS FEED, by better digestion and assimilation.

Conkey's Tonic is all medicine—free from filler, red pepper, and "hot stuff" to overstimulate the birds and break down their health. Conkey's builds on a natural, healthy basis, inducing steady and persistent laying. Keeps the young chicks growing, makes molting easy, strengthens the bird for bad weather and generally maintains a high health average.

Buy it by the pail. Packages, 25c, 50c, \$1.00; pails, 12-lb. \$1.60; 25-lb. \$3.00; bags, 50-lb. \$5.00; 100-lb. \$9.50. Parcel post, express or freight charges extra.



### Conkey's Gape Remedy

Don't try to extract gapes with a wire or feather when you can get such an effective remedy as Conkey offers. This remedy comprises two powders—both in same box for one price—one sifted over chicks causes them to dislodge the worms in windpipe by coughing, the other is a tonic powder which is mixed in the feed—to help the bird build up its resisting powers.

Packages, 25c, 50c; 30c, 55c postpaid.



### Conkey's Limberneck Remedy

For limberneck (or ptomaine poisoning) this remedy should be on hand in your Conkey Corner at all times as Limberneck must be treated promptly.

Packages, 50c; 55c postpaid.



### Conkey's Poultry Conditioner

Highly concentrated fowl-regulator, blood-purifier and nerve food, to build up birds in a rundown condition or for fowls recovering from disease. Splendid for putting birds in condition for shows, and sustaining them during exhibition.

Packages, 25c, 50c; 30c, 55c postpaid.



### Conkey's Fly Knocker

Dairymen, horsemen, cattlemen, and sheep raisers declare this to be the best investment they make—animals free from insects do better in milk and butter fat production, while growing stock unquestionably fattens faster when relieved from disease-spreading insects.

Cans—qt. 60c; ½ gal. 90c; gal. \$1.50; 5 gal. \$7.25; 10 gal. \$14.00. Parcel post, express or freight extra.



### Conkey's Scaly Leg Remedy

This ointment applied to birds' legs in a few treatments will kill the parasites responsible for the trouble and heal up the legs with a healthy lustre.

Package, 25c Postpaid.

### Conkey's Stock Tonic

A general conditioner of real merit for live stock.

Packages, 25c, 50c; pails, 12 lb. \$2.10; 25 lbs. \$3.45; bags, 50 lb. \$5.25; 100 lb. \$10.00. Parcel post, express or freight charges extra.

## Conkey's LICE POWDER



For dusting hens, nests, growing chicks—wherever body lice must be overcome.

Packages, 10c, 25c, 50c; pails 12-lb. \$1.40; 25-lb. \$2.75. Parcel post, express or freight extra.

### Conkey's Lice Liquid

For painting roosts, fittings, inside of house, nest boxes and wherever mites congregate.

Cans—qt. 60c, 2-qt. 90c; gal. \$1.50; 5-gal. \$7.00. Parcel post, express or freight extra.

### Conkey's Head Lice Ointment

For overcoming and preventing murderous head louse which "eats up" baby chicks.

Packages, 10c, 25c, postpaid.

### Conkey's Lice Fix

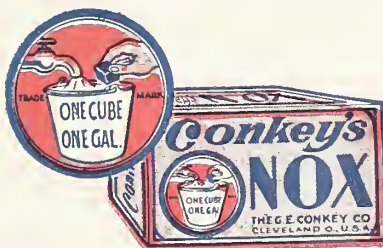
A preparation in ointment form for fighting body lice. One application lasts a month.

Packages, 25c, 50c postpaid.



# Conkey's NOX

THE NEW  
SOLIDIFIED DISINFECTANT  
AND STOCK DIP



Here at last is a high-grade disinfectant in solid form. A little cube—only an inch square—mixed in water makes a gallon of dip or disinfectant with a co-efficient of 5.25, making it 2 to 3 times as strong as most coal-tar disinfectants.

No fuss and bother with heavy, leaky cans and steel drums. No waste, no guessing as to mixture. A saving on freight and packing charges.

Conkey's Nox is made of imported oils—noted for their uniformity—and concentrated by an exclusive, patented process.

Conkey's Nox is of a nature similar to Conkey's Nox-i-cide, but in a condensed, more effective, more easily-handled form. It is also over two times as strong, giving Nox an even wider range of uses than Nox-i-cide.

The presentation of this newer, better way is another Conkey achievement that ranks with the discovery of Conkey's world-famous Roup Remedy and other Conkey products. In this, Conkey, as usual, leads the way to improved methods.

Packages, 6 cubes, 25c; 15 cubes, 60c; 30 cubes, \$1.00; 75 cubes, 2½ lbs., \$1.75; 150 cubes, 5 lbs., \$3.25. Parcel post, express or freight extra.

Ask for special prices on larger quantities.



## Conkey's Sorehead Remedy

For dangerous, contagious sorehead or chicken pox, pigeon pox, warts and pian. Attacks the trouble from two angles—a powder for the blood and a salve for the sores.

Packages, 25c, 50c; 30c, 55c postpaid; breeder size (1 lb. salve, 5 lb. powder) \$3.50 or 10 lbs. powder only, \$3.50; \$3.65 postpaid.



## Conkey's Blackhead Remedy

Turkey breeders should have a package on hand as blackhead is deadly in advanced stages. Should be given regularly to growing poults.

Packages, 50c; 55c postpaid.



## Conkey's Poultry Worm Remedy

This prescription rids birds of many troublesome worms, thus promoting a return to healthy conditions. Give it as soon as you suspect worms—it will help the whole flock.

Packages, 25c, 50c, 30c, 55c postpaid; breeder size, (5 lbs.) \$2.75; \$2.85 postpaid.



## Conkey's Poultry Laxative

Wherever a laxative or purgative is needed this remedy is just the thing for birds—by varying the dosage you can produce either a mild or a strong effect. Works without a debilitating after-effect.

Experts say, and we have found through experiments, that a poultry laxative given every week or two not only keeps birds in better condition but increases the egg yield very materially. If you are not employing this method, try it and be convinced.

Packages, 25c, 50c; 30c, 55c postpaid; breeder size (5-lbs.) \$2.75; \$2.90 postpaid.

# Conkey's WHITE DIARRHEA REMEDY



Once you have used this old reliable preparation, you will never be without it. As a preventive of bowel troubles, White Diarrhea and other digestive complaints, it has given great satisfaction for many years.

After getting a start diarrhetic conditions often sweep away the whole hatch—hundreds of chicks. Play safe—keep this remedy in the drinking water until the danger period is past.

This remedy is also recommended as a preventive measure and in treatment of coccidiosis, a diarrhetic condition which attacks chicks similarly to White Diarrhea, but which differs from White Diarrhea in that a principal symptom is bloody droppings rather than white.

Packages 25c, 50c, \$1.00, all postpaid; breeder size (1200 Tablets) \$3.50; \$3.60 postpaid.



## Symptoms of the most prevalent Poultry Diseases and Ailments

*Preserve this Circular. Knowing how to tell what is wrong may save your whole flock some day.*

### ROUP

Nostrils closed. Running at the nose.  
Face swollen. Comb pale.  
Whistle or sneeze when breathing.  
Breath with Catarrhal odor.

### WHITE DIARRHEA

Chick droops wings.  
Eye listless and chicks generally weak.  
First symptoms usually a white, chalky deposit on down below the vent.  
Severe diarrhea; droppings gummy.

### CANKER

Hard swelling on face.  
Yellow or cheesy growth may show in roof of mouth.  
Eye distended. Breath foul.

### BRONCHITIS

Fowl rattles, not sneezes, when breathing.  
Labored breathing.  
Eyes bright. Comb bright.

### CATARRH

Gummy deposit around nostril.  
Froth in eyes.  
Frequent shaking of head due to irritation.  
Similar to roup; in fact, usually forerunner of roup.

### DIPHThERIA

False membrane in nostrils, throat, mouth and eyes.  
Foul odor not like roup.  
Membranes bleed when removed.

### PIP

Tip of tongue hard. Nostrils usually closed.  
Breath through mouth.

### PNEUMONIA

Rapid and labored breathing.  
Bloody mucous may show at corner of mouth.  
Comb dark red or bluish.  
Bird sleepy or in a comatose condition.

### CHOLERA-LIKE DISEASES

Comb dark or bluish. Fowl sleepy.  
Feathers rough. Flesh clammy and bloodless.  
Droppings showing canary yellow and possibly at times a brown mucus.  
Constant diarrhea.  
Breath bad and general dejected condition.

### SOUR CROP

Crop distended. Soft and full of foul water.  
When handled bird belches.  
Discomfort plainly visible.

### CROP BOUND

Great discomfort. Crop solid and distended.  
Bird ravenous and constantly crowding the crop.

### BLACKHEAD

Usually develops in young turkeys.  
Marked diarrhea. Lack of interest in food.  
Head dark in color. General dejected condition.  
Wings drooped; legs weak, feathers ruffled.

### TUBERCULOSIS

Lack of life. Rapidly loses weight.  
High temperature.  
Usually violent diarrhea.

### LIMBERNECK

Fowl loses partial or complete control of its neck.  
Bird weak and head drags on ground when it attempts to walk.

### GAPES

Chick gapes constantly. Rapidly weakens.  
Stands with eyes closed.

### CHICKEN POX or SOREHEAD

Dark, warty spots on comb and face.  
When removed, discharge a yellowish liquid.

### FAVUS

Scaly gray spots on comb and face.  
Grow in numbers until entire comb, face and neck are covered.

### RHEUMATISM

Stiff joints. Muscles contracted.  
Toes sometimes drawn under foot.  
Bird walks stiffly and lame.

### BUMBLEFOOT

Foot swollen. Hard calloused place on bottom of foot.  
Foot very sore and may be very dark or bluish above the toes.

### COCCIDIOSIS

Attacks chicks and old fowls.  
Dullness, Weakness, Sleepiness, Diarrhea.  
Loss of weight. Bloody droppings.

### LEG WEAKNESS

Chicks wobbly on legs. Sit down to eat.  
Drag along on hocks.

### INTESTINAL WORMS

Wasting away. Slight Diarrhea. Worms in droppings.  
Fowls mope. Dull. Listless.

### CONSTIPATION

Dullness. Loss of appetite.  
Birds stand with arched back.  
Walk with difficulty.

### BROODER PNEUMONIA (Aspergillosis)

Slight catarrh. Fast breathing. Chicks mope.  
Emit croupy sound. Weakness. Fever.  
Drooping wings. Excessive thirst.

### LICE, MITES, TICKS, FLEAS

Restlessness.  
Fowls pick and scratch selves.  
Grow listless and thin.  
Little chicks suffer bowel trouble and wings droop.

### LIVER TROUBLE

Comb and wattles fade, gradually changing to dark red or purple.  
Loss of appetite. Sluggishness.





## M. & S. WONDER BRED CHICKS

Are hatched to live and mature to big fine healthy specimens. We are this season hatching thousands weekly, and are better prepared than ever to fill the wants of our patrons.

We advise placing orders ahead of time, as the demand for our M. & S. WONDER BRED CHICKS is always great. We will start deliveries the last week in February and continue until the first of June on all popular breeds.



### LIST OF M. & S. WONDER BRED CHICKS

Prices for February and March Subject to Change Without Notice

	100	50	25	12
Single Comb White Leghorns.....	\$16.00	\$8.50	\$4.50	\$2.50
Single Comb Brown Leghorns.....	16.00	8.50	4.50	2.50
Single Comb Buff Leghorns.....	16.00	8.50	4.50	2.50
Single Comb Black Minorcas.....	19.00	10.00	5.50	3.00
Single Comb Mottled Anconas.....	19.00	10.00	5.50	3.00
Barred Plymouth Rocks.....	19.00	10.00	5.50	3.00
Rhode Island Reds.....	19.00	10.00	5.50	3.00
White Wyandotte.....	19.00	10.00	5.50	3.00
White Plymouth Rocks.....	21.00	11.00	6.00	3.25
Buff Plymouth Rocks.....	21.00	11.00	6.00	3.25
Buff Orpington.....	21.00	11.00	6.00	3.25

April prices \$1.00 per 100 less than February and March. May and June prices \$1.00 per 100 less than April. Small quantities accordingly. Prices Subject to Change.

### Plymouth Rocks

The best general purpose fowl; good layers, splendid breeders, are hardy and vigorous. Four varieties: Barred, White, Buff and Partridge Rocks.

Gentlemen: The 300 Barred Rock Baby Chicks arrived in fine condition and are very satisfactory. Have lost none and they are doing well.—Dorsey M. Williams, Ellicott City, Md.

I am pleased to say that M. & S. Wonder Bred Baby Chicks are a fine lot.—Mr. Dorrance, Belair, Md.



Barred Plymouth Rocks



Single Comb Rhode Island Reds

### Single Comb Rhode Island Reds

These splendid fowls have a great many admirers, and are one of the best all-around fowl.

Gentlemen: A few lines thanking you for my baby chicks which arrived in wonderful condition. Everyone was as lively as if a week old. I am quite proud of them.—Mrs. Roscoe Hammond, Upper Falls, Md.

### Single Comb Leghorns

The most popular fowl of the day. They grow very fast, often laying when only four or five months old; non-setters. Three varieties—White, Brown, and Buff Leghorns.

Gentlemen: I am pleased to say that my Single Comb Buff Leghorn Rooster, which is of a lot of M. & S. Wonder Bred Baby Chicks which I purchased from you, won second prize at the 1921 Poultry Show held in Baltimore.—Richard Barber, Fullerton, Md.



Single Comb White Leghorns

## Prices on Poultry and Eggs

(Prices Subject to Change)

Single Birds .....	from \$4.50 to \$ 8.00
Pairs .....	from 8.50 to 15.00
Trios .....	from 12.00 to 17.50
Pens .....	from 20.00 to 30.00

Prices on Ducks, Geese, Turkeys and Guinea on Application.

Prices on Eggs for Chickens, Ducks, and Guinea, per setting of 15; Ducks, 11;

\$2.50 to \$5.00  
100 or more, \$12.00 to \$15.00  
50 at 100 Rate.

Gentlemen,—The chicks were received yesterday and they are a wonderful lot, only two dead. They are doing fine and we are very much pleased. We shall always praise M. & S. Wonder Bred Baby Chicks to the highest.—Wm. E. Vogelison, Indian Head, Md.



Mammoth Bronze Turkeys



Indian Runner Ducks

## Dog Foods, Remedies, Etc.



Miller's A-1 Ration Dog Food—The best dog food on the market in the shape of meal; can be fed dry or wet. We have hundreds of customers who are feeding this food with entire satisfaction. Price of Food, 1 lb. 10c; 100 lbs. \$6.50. Price subject to change.

Spratt's Meat Fibrine Vegetable Dog Cakes—A staple food for all breeds; too well known to be described. Price, 1 lb. 15c; 100 lbs. \$13. Price subject to change.

Spratt's Puppy Biscuits—The standard puppy food. 1 lb. 15c; 100 lbs. \$13.50.

Spratt's Fibo—An appetizing and flesh-forming food for puppies and dogs out of condition. Pkg. 40c, postpaid.

Spratt's Charcoal Biscuit—40c pkg., postpaid.

Spratt's Cod Liver Oil Biscuit—35c pkg., postpaid.

Spratt's Dog Remedies—A remedy for each disease.

Spratt's White Dog Soap—Death to fleas. Price, 25c. Mailing weight, 1 lb.

## Sergeant's Dog Medicine

Distemper Medicine—Price, \$1.20. By mail, \$1.25.

Mange Medicine—Price, 65c. Not mailable.

Condition Pills—Price, 60c. Postpaid.

Sure Shot Capsules—Price, 60c. Postpaid.

Sure Shot Liquid—Price, 60c. Not mailable.

Arsenic and Iron Pills—Price, 60c. Postpaid.

Dog Eub (a Liniment)—Price, 60c. Not mailable.

Canker Wash—Price, 60c. Not mailable.

Cough Medicine—Price, 60c. Not mailable.

Well Mouth (Sore Mouth and Black Tongue)—Price, 60c. Not mailable.

Eye Wash—Price, 60c. Not mailable.

Tape Worm Medicine—Price, 60c. Postpaid.

Rheumatism Pills—Price, 60c. Postpaid.

Constipation Capsules—Price, 30c. Postpaid.

Skip-Flea Soap—Price, 25c. Postpaid.

Carbolic-Tar Soap—Price, 25c. Postpaid.

Send for special book on dogs—Spratt's and Sergeants.



# OBER'S

## Fertilizers



### Oldest in America

*Since 1840*



**For Prices and Analysis See Page 47**